

17009 CITY OF CHARLESTON, S.C.
00000 GENERAL
23 MAY 1994

Invoice Number 281163
Page 2

TOTAL AMOUNT OF THIS INVOICE	\$22,490.24
PRIOR BALANCE DUE	\$58,616.59
TOTAL BALANCE DUE UPON RECEIPT	----- \$81,106.83 =====

58616.59
25503.42

33113.17

Tr

LG010165
CONFIDENTIAL

All invoices are due upon receipt.
Balance due reflects payments received through invoice date.
Any time, disbursements, and charges relating to this matter not shown above will appear on next month's bill.

SCANA018034

ARENT FOX KINTNER PLOTKIN & KAHN

1050 Connecticut Avenue, N.W.

Washington, D.C. 20036-5339

Telephone: (202) 857-6000 Telecopy: (202) 857-6395

Taxpayer Identification Number: 53-0214923

CITY OF CHARLESTON
P.O. BOX 304
CHARLESTON, SC 29402

Invoice Number 278380
Invoice Date 04/21/94
Client Number 17009
Matter Number 00001

ATTN: ADELAIDE MYRICK, ESQ.

Re: POTENTIAL COST RECOVERY IN CONNECTION WITH AQUARIUM AND
RELATED PROJECTS.

FOR PROFESSIONAL SERVICES RENDERED: THROUGH 31 MAR 1994

ATTORNEY TIME SUMMARY:

Attorney	Hours	Rate	Value
ML FLEISCHAKER	5.5 at	\$310 =	1,705.00
RG EDWARDS	20.4 at	\$165 =	3,366.00
CS KING	9.2 at	\$265 =	2,438.00

CURRENT FEES

7,509.00

FOR DISBURSEMENTS AND CHARGES:

DUPLICATING SUMMARY	37.40
MEALS	110.00

CURRENT DISBURSEMENTS AND CHARGES

147.40

TOTAL AMOUNT OF THIS INVOICE

\$7,656.40

PRIOR BALANCE DUE

\$1,998.00

Approved for Payment 5/3/94
Adelaide N. Myrick
 Re: Aquarium Account

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SCANA018035

17009 CITY OF CHARLESTON
00001 COST RECOVERY
21 APR 1994

Invoice Number 278380
Page 2

TOTAL BALANCE DUE UPON RECEIPT

\$9,654.40
=====

All invoices are due upon receipt.

Balance due reflects payments received through invoice date.

Any time, disbursements, and charges relating to this matter not shown above will appear on next month's bill.

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SCANA018036

ARENT FOX KINTNER PLOTKIN & KAHN

1050 Connecticut Avenue, N.W.

Washington, D.C. 20036-6339

Telephone: (202) 857-6000 Telecopy: (202) 857-6395

Taxpayer Identification Number: 53-0214923

CITY OF CHARLESTON, S.C.
P.O. BOX 304
CHARLESTON, SC 29402

Invoice Number 278379
Invoice Date 04/21/94
Client Number 17009
Matter Number 00000

ATTN: ADELAIDE MYRICK, ESQ.

Re: MARITIME CENTER \$436.00, AQUARIUM \$21,417.00

FOR PROFESSIONAL SERVICES RENDERED: THROUGH 31 MAR 1994

ATTORNEY TIME SUMMARY:

Attorney	Hours	Rate	Value
ML FLEISCHAKER	20.5 at	\$310 =	6,355.00
LA BEDIG	55.7 at	\$195 =	10,861.50
RG EDWARDS	28.1 at	\$165 =	4,636.50

CURRENT FEES

21,853.00

FOR DISBURSEMENTS AND CHARGES:

POSTAGE	0.52
LONG DISTANCE TELEPHONE	145.25
DUPLICATING SUMMARY	334.40
OVERTIME MEALS & CAB	5.50
DOCUMENT DESIGN SERVICES	25.00
OVERTIME EXPENSE 2X (SEC'Y)	240.00
FREIGHT/OVERNIGHT DELIVERY	10.75
OUT-OF-TOWN TRAVEL	2,690.00
PRINTING/BINDING	1.00
TELECOPIER	198.00

CURRENT DISBURSEMENTS AND CHARGES

3,650.42

SCA : 3577.41
DP : 77.51
3650.42

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17009 CITY OF CHARLESTON, S.C.
00000 GENERAL
21 APR 1994

Invoice Number 278379
Page 2

TOTAL AMOUNT OF THIS INVOICE	\$25,503.42
PRIOR BALANCE DUE	\$64,626.32
TOTAL BALANCE DUE UPON RECEIPT	----- \$90,129.74 =====

Agencia MS
DP

24 994.41
50 9.01

25503.42

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All invoices are due upon receipt.
Balance due reflects payments received through invoice date.
Any time, disbursements, and charges relating to this matter not shown above will appear on next month's bill.

SCANA018038

ARENT FOX KINTNER PLOTKIN & KAHN

1050 Connecticut Avenue, N.W.

Washington, D.C. 20036-6339

Telephone: (202) 857-6000 Telecopy: (202) 857-6396

Taxpayer Identification Number: 53-0214923

CITY OF CHARLESTON, S.C.
P.O. BOX 304
CHARLESTON, SC 29402

Invoice Number 277677
Invoice Date 03/23/94
Client Number 17009
Matter Number 00000

ATTN: ADELAIDE MYRICK, ESQ.

Re: MARITIME CENTER \$2,339.00 AQUARIUM \$26,365.50

FOR PROFESSIONAL SERVICES RENDERED: THROUGH 28 FEB 1994

ATTORNEY TIME SUMMARY:

Attorney	Hours	Rate	Value
ML FLEISCHAKER	41.3 at	\$310 =	12,803.00
LA BEDIG	52.1 at	\$195 =	10,159.50
RG EDWARDS	34.8 at	\$165 =	5,742.00

CURRENT FEES

28,704.50

FOR DISBURSEMENTS AND CHARGES:

POSTAGE	5.15
LEXIS/WESTLAW	419.64
LONG DISTANCE TELEPHONE	156.54
DUPLICATING SUMMARY	112.00
OVERTIME MEALS & CAB	5.00
DOCUMENT DESIGN SERVICES	43.75
AUTO, PARKING & TAXI	268.35
FREIGHT/OVERNIGHT DELIVERY	25.50
MEALS	124.89
OUT-OF-TOWN TRAVEL	1,015.00
TELECOPIER	127.50
OTHER	7.00

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3/30/94 - Approved for Payment - Telephoned T. Dixon
from Aquarium account. Deputy Corporation Counsel

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17009 CITY OF CHARLESTON, S.C.
00000 GENERAL
23 MAR 1994

Invoice Number 277677
Page 2

LODGING
OUT-OF-TOWN MEALS

446.15
52.18

CURRENT DISBURSEMENTS AND CHARGES

2,808.65

TOTAL AMOUNT OF THIS INVOICE

\$31,513.15

PRIOR BALANCE DUE

\$60,640.56

TOTAL BALANCE DUE UPON RECEIPT

\$92,153.71
=====

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All Invoices are due upon receipt.
Balance due reflects payments received through invoice date.
Any time, disbursements, and charges relating to this matter not shown above will appear on next month's bill.

SCANA018040

ARENT FOX KINTNER PLOTKIN & KAHN

1050 Connecticut Avenue, N.W.

Washington, D.C. 20036-5339

Telephone: (202) 857-6000 Telecopy: (202) 857-6396

Taxpayer Identification Number: 53-0214923

CITY OF CHARLESTON
P.O. BOX 304
CHARLESTON, SC 29402

Invoice Number 277678
Invoice Date 03/23/94
Client Number 17009
Matter Number 00001

ATTN: ADELAIDE MYRICK, ESQ.

Re: POTENTIAL COST RECOVERY IN CONNECTION WITH AQUARIUM AND
RELATED PROJECTS.

FOR PROFESSIONAL SERVICES RENDERED: THROUGH 28 FEB 1994

ATTORNEY TIME SUMMARY:

Attorney	Hours	Rate	Value
ML FLEISCHAKER	5.1 at	\$310 =	1,581.00
RG EDWARDS	0.6 at	\$165 =	99.00
CS KING	1.2 at	\$265 =	318.00

CURRENT FEES

1,998.00

TOTAL AMOUNT OF THIS INVOICE

\$1,998.00

PRIOR BALANCE DUE

\$374.00

TOTAL BALANCE DUE UPON RECEIPT

\$2,372.00

3/30/94 - Approved for Payment - Adelaide Myrick
for Aquarium Account. Deputy Corporate Counsel

All Invoices are due upon receipt.

Balance due reflects payments received through invoice date.

Any time, disbursements, and charges relating to this matter not shown above will appear on next month's bill.

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SCANA018041

KENT FOX KINTNER PLOTKIN & KAHN

1050 Connecticut Avenue, N.W.

Washington, D.C. 20036-5339

Telephone: (202) 857-6000 Telecopy: (202) 857-6395

Taxpayer Identification Number: 53-0214923

CITY OF CHARLESTON, S.C.
P.O. BOX 304
CHARLESTON, SC 29402

Invoice Number 275067
Invoice Date 02/28/94
Client Number 17009
Matter Number 00000

ATTN: ADELAIDE MYRICK, ESQ.

Re: MARITIME CENTER \$11,807.00, AQUARIUM \$13,576.00

FOR PROFESSIONAL SERVICES RENDERED: THROUGH 31 JAN 1994

ATTORNEY TIME SUMMARY:

Attorney	Hours	Rate	Value
ML FLEISCHAKER	34.3 at	\$310 =	10,633.00
LA BEDIG	5.9 at	\$195 =	1,150.50
MJ KELLEHER	2.3 at	\$80 =	184.00
RG EDWARDS	80.7 at	\$165 =	13,315.50
M SHAW	0.8 at	\$125 =	100.00

CURRENT FEES

25,383.00

FOR DISBURSEMENTS AND CHARGES:

LONG DISTANCE TELEPHONE	198.20
DUPLICATING SUMMARY	70.80
CAR RENTAL	103.83
AUTO, PARKING & TAXI	65.65
FREIGHT/OVERNIGHT DELIVERY	35.25
MEALS	47.62
OUT-OF-TOWN TRAVEL	1,257.00
TELECOPIER	102.00

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17009 CITY OF CHARLESTON, S.C.
 00000 GENERAL
 28 FEB 1994

Invoice Number 275067
 Page 2

LODGING 207.42
 OUT-OF-TOWN MEALS 56.62

CURRENT DISBURSEMENTS AND CHARGES 2,144.39

TOTAL AMOUNT OF THIS INVOICE \$27,527.39

PRIOR BALANCE DUE \$46,724.82

TOTAL BALANCE DUE UPON RECEIPT \$74,252.21
 =====

Agnew MS 14648.20
 DP 12879.19
 27527.39

All invoices are due upon receipt.
 Balance due reflects payments received through invoice date.
 Any time, disbursements, and charges relating to this matter not shown above will appear on next month's bill.

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SCANA018043

ARENT FOX KINTNER PLOTKIN & KAHN

1050 Connecticut Avenue, N.W.

Washington, D.C. 20036-5339

Telephone: (202) 857-6000 Telecopy: (202) 857-6395

Taxpayer Identification Number: 53-0214923

CITY OF CHARLESTON
P.O. BOX 304
CHARLESTON, SC 29402

ATTN: ADELAIDE MYRICK, ESQ.

Invoice Number 275068
Invoice Date 02/28/94
Client Number 17009
Matter Number 00001

Re: POTENTIAL COST RECOVERY IN CONNECTION WITH AQUARIUM AND
RELATED PROJECTS.

FOR PROFESSIONAL SERVICES RENDERED: THROUGH 31 JAN 1994

ATTORNEY TIME SUMMARY:

Attorney	Hours	Rate	Value
ML FLEISCHAKER	1.1 at	\$310 =	341.00
ARG EDWARDS	0.2 at	\$165 =	33.00

CURRENT FEES

374.00

TOTAL BALANCE DUE UPON RECEIPT

\$374.00

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All invoices are due upon receipt.

Balance due reflects payments received through invoice date.

Any time, disbursements, and charges relating to this matter not shown above will appear on next month's bill.

SCANA018044

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ARENT FOX KINTNER PLOTKIN & KAHN

1050 Connecticut Avenue, N.W.

Washington, D.C. 20036-6339

Telephone: (202) 857-6000 Telecopy: (202) 857-8395

Taxpayer Identification Number: 53-0214923

JAMES W. ETHEREDGE
 DIRECTOR OF ADMINISTRATIVE SERVICES
 CITY OF CHARLESTON
 P.O. BOX 304
 CHARLESTON, SC 29402

Invoice Number 272032
 Invoice Date 01/20/94
 Client Number 17009
 Matter Number 00000

Re: MARITIME CENTER \$1,369.50, AQUARIUM \$11,059.00

FOR PROFESSIONAL SERVICES RENDERED: THROUGH 31 DEC 1993

ATTORNEY TIME SUMMARY:

Attorney	Hours	Rate	Value
ML FLEISCHAKER	8.9 at	\$305 =	2,714.50
LA BEDIG	7.2 at	\$185 =	1,332.00
ARG EDWARDS	50.8 at	\$165 =	8,382.00

CURRENT FEES

12,428.50

FOR DISBURSEMENTS AND CHARGES:

LONG DISTANCE TELEPHONE	130.79
DUPLICATING SUMMARY	52.40
DOCUMENT DESIGN SERVICES	12.50
AUTO, PARKING & TAXI	85.83
FREIGHT/OVERNIGHT DELIVERY	49.75
OUT-OF-TOWN TRAVEL	717.00
TELECOPIER	126.00
OUT-OF-TOWN MEALS	8.88

CURRENT DISBURSEMENTS AND CHARGES

1,183.15

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SCANA018045

17009 JAMES W. ETHEREDGE
00000 GENERAL
20 JAN 1994

Invoice Number 272032
Page 2

TOTAL AMOUNT OF THIS INVOICE \$13,611.65

PRIOR BALANCE DUE \$33,113.17

TOTAL BALANCE DUE UPON RECEIPT \$46,724.82
=====

Agung
DP

11650.58
1961.07

13611.65

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CONFIDENTIAL

All invoices are due upon receipt.

Balance due reflects payments received through invoice date.

Any time, disbursements, and charges relating to this matter not shown above will appear on next month's bill.

SCANA018046

JOX KINTNER PLOTKIN & KAHN

1050 Connecticut Avenue, N.W.

Washington, D.C. 20036-5339

Telephone: (202) 857-6000 Telecopy: (202) 857-8395

Taxpayer Identification Number: 53-0214923

14/39

CITY OF CHARLESTON, S.C.
C/O REGAN AND CANTWELL
P. O. BOX 1001
18 BROADSTREET, SUITE 610
CHARLESTON, SC 19402

Invoice Number 270605
Invoice Date 12/21/93
Client Number 17009
Matter Number 00000

ATTN: WILLIAM B. REGAN, ESQ.

Re: MARITIME CENTER \$7,135.00 PUMP STATION \$627.00 AQUARIUM
\$16,191.50

FOR PROFESSIONAL SERVICES RENDERED: THROUGH 30 NOV 1993

ATTORNEY TIME SUMMARY:

Attorney	Hours	Rate	Value
ML FLEISCHAKER	12.0 at	\$305 =	3,660.00
LA BEDIG	38.7 at	\$185 =	7,159.50
RG EDWARDS	79.6 at	\$165 =	13,134.00

CURRENT FEES

23,953.50

FOR DISBURSEMENTS AND CHARGES:

POSTAGE	1.04
LONG DISTANCE TELEPHONE	177.91
DUPLICATING SUMMARY	188.40
OVERTIME MEALS & CAB	53.00
OVERTIME EXPENSE (SECRETARY)	330.00
WORD PROCESSING-SUPPORT	218.75
AUTO, PARKING & TAXI	37.10
FREIGHT/OVERNIGHT DELIVERY	132.50
MEALS	10.23
OUT-OF-TOWN TRAVEL	631.00
TELECOPIER	139.50

PAID

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SCANA018047

CITY OF CHARLESTON, S.C.
00000 GENERAL
21 DEC 1993

Invoice Number 270605
Page 2

LODGING	171.72	
OUT-OF-TOWN MEALS	10.24	

CURRENT DISBURSEMENTS AND CHARGES		2,101.39
TOTAL AMOUNT OF THIS INVOICE		\$26,054.89
PRIOR BALANCE DUE		\$72,499.49

TOTAL BALANCE DUE UPON RECEIPT		\$98,554.38
		=====

Agave	MS	16891.97
	DF	1322.46
	DP	7835.46
		<hr/>
		26054.89

All invoices are due upon receipt.
Balance due reflects payments received through invoice date.
Any time, disbursements, and charges relating to this matter not shown above will appear on next month's bill.

LG010179
CONFIDENTIAL

SCANA018048

OCT 04 '94 08:09AM RHODES/DAHL 408 647 8517

P.7

ARENT FOX KINTNER PLOTKIN & KAHN

1050 Connecticut Avenue, N.W.
 Washington, D.C. 20036-5339
 Telephone: (202) 857-5000 Telecopy: (202) 857-8395
 Taxpayer Identification Number: 53-0214923

RECEIVED

SEP 16 1994

RHODES/DAHL

CITY OF CHARLESTON, S.C.
 C/O REGAN AND CANTWELL
 P. O. BOX 1001
 18 BROADSTREET, SUITE 610
 CHARLESTON, SC 19402

Invoice Number 267679
 Invoice Date 11/19/93
 Client Number 17009
 Matter Number 00000

ATTN: WILLIAM B. REGAN, ESQ.

*nam doesn't
 have this invoice
 9/20/94*

Re: MARITIME \$5,725.50; AQUARIUM, \$23,765.00

FOR PROFESSIONAL SERVICES RENDERED: THROUGH 31 OCT 1993

ATTORNEY TIME SUMMARY:

Attorney	Hours	Rate	Value
ML FLEISCHAKER	18.9 at	\$305 =	5,764.50
LA BEDIG	51.1 at	\$185 =	9,453.50
MR EDWARDS	66.5 at	\$165 =	10,972.50
CS KING	15.0 at	\$220 =	3,300.00

CURRENT FEES

29,490.50

FOR DISBURSEMENTS AND CHARGES:

POSTAGE	7.30
LONG DISTANCE TELEPHONE	230.07
DUPLICATING SUMMARY	175.00
OVERTIME MEALS & CAB	5.00
AUTO, PARKING & TAXI	30.00
FREIGHT/OVERNIGHT DELIVERY	19.25
OUT-OF-TOWN TRAVEL	2,831.50
PRINTING/BINDING	1.50
TELECOPIER	319.50
OUT-OF-TOWN MEALS	3.55

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SCANA018049

OCT 04 '94 08:09AM RHODES/DAHL 408 647 8517

17009 CITY OF CHARLESTON, S.C.
00000 GENERAL
19 NOV 1993

Invoice Number 267679
Page 2

CURRENT DISBURSEMENTS AND CHARGES 3,622.67

TOTAL AMOUNT OF THIS INVOICE \$33,113.17 ✓

PRIOR BALANCE DUE \$39,386.32

TOTAL BALANCE DUE UPON RECEIPT \$72,499.49

All invoices are due upon receipt.

Balance due reflects payments received through invoice date.

Any time, disbursements, and charges relating to this matter not shown above will appear on next month's bill.

LGO10181
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SCANA018050

ARENT FOX KINTNER PLOTKIN & KAHN

1050 Connecticut Avenue, N.W.

Washington, D.C. 20036-5339

Telephone: (202) 857-8000 Telecopy: (202) 857-8395

Taxpayer Identification Number: 53-0214923

CITY OF CHARLESTON, S.C.
C/O REGAN AND CANTWELL
P. O. BOX 1001
18 BROADSTREET, SUITE 610
CHARLESTON, SC 19402

Invoice Number 264622
Invoice Date 10/27/93
Client Number 17009
Matter Number 00000

ATTN: WILLIAM B. REGAN, ESQ.

Re: MARITIME \$11,310.50; INSURANCE \$2,278.50; PUMP STATION
\$550.50; AQUARIUM, \$22,379.00

FOR PROFESSIONAL SERVICES RENDERED: THROUGH 30 SEP 1993

ATTORNEY TIME SUMMARY:

Attorney	Hours	Rate	Value
ML FLEISCHAKER	33.0 at	\$305 =	10,065.00
LE BLATNIK	0.2 at	\$195 =	39.00
LA BEDIG	10.9 at	\$185 =	2,016.50
RG EDWARDS	147.2 at	\$165 =	24,288.00
CS KING	0.5 at	\$220 =	110.00

CURRENT FEES

36,518.50

FOR DISBURSEMENTS AND CHARGES:

POSTAGE	3.34
LONG DISTANCE TELEPHONE	147.91
DUPLICATING SUMMARY	316.00
AUTO, PARKING & TAXI	104.00
FREIGHT/OVERNIGHT DELIVERY	18.75
MEALS	122.48
OUT-OF-TOWN TRAVEL	1,731.50

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SCANA018051

17009 CITY OF CHARLESTON, S.C.
00000 GENERAL
27 OCT 1993

Invoice Number 264622
Page 2

PRINTING/BINDING	2.00
TELECOPIER	265.50
OTHER	1.00
LODGING	110.16
OUT-OF-TOWN MEALS	45.18

CURRENT DISBURSEMENTS AND CHARGES	2,867.82

TOTAL BALANCE DUE UPON RECEIPT	\$39,386.32
=====	

<i>Agronom</i>	MS	23095.94
	GF	2995.46
	DP	12022.46
	DF	1267.46
		<hr/> 39386.32

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All Invoices are due upon receipt.
Balance due reflects payments received through invoice date.
Any time, disbursements, and charges relating to this matter not shown above will appear on next month's bill.

SCANA018052

1050 Connecticut Avenue, N.W.
 Washington, D.C. 20036-6339
 Telephone: (202) 857-8000 Telecopy: (202) 857-6395
 Taxpayer Identification Number: 53-0214923

P

CITY OF CHARLESTON, S.C.
 C/O REGAN AND CANTWELL
 P. O. BOX 1001
 18 BROADSTREET, SUITE 610
 CHARLESTON, SC 19402

Invoice Number 263099
 Invoice Date 09/27/93
 Client Number 17009
 Matter Number 00000

ATTN: WILLIAM B. REGAN, ESQ.

Re: MARITIME \$8,374.50; INSURANCE \$5,482.50; PUMP STATION
 \$841.50; AQUARIUM, AND RELATED MATTERS \$18,762.00

FOR PROFESSIONAL SERVICES RENDERED: THROUGH 31 AUG 1993

ATTORNEY TIME SUMMARY:

Attorney	Hours	Rate	Value
ML FLEISCHAKER	44.1 at	\$305 =	13,450.50
LL BEDIG	23.7 at	\$185 =	4,384.50
RG EDWARDS	94.7 at	\$165 =	15,625.50

CURRENT FEES

33,460.50

FOR DISBURSEMENTS AND CHARGES:

POSTAGE	0.29
LONG DISTANCE TELEPHONE	267.11
DUPLICATING SUMMARY	142.20
OVERTIME MEALS & CAB	5.50
OVERTIME EXPENSE (SECRETARY)	82.50
MICROFICHE DUPLICATION	13.50
AUTO, PARKING & TAXI	141.80
FREIGHT/OVERNIGHT DELIVERY	10.75
OUT-OF-TOWN TRAVEL	698.00
TELECOPIER	649.50
LODGING	460.37

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SCANA018053

17009 CITY OF CHARLESTON, S.C.
00000 GENERAL
27 SEP 1993

Invoice Number 263099
Page 2

OUT-OF-TOWN MEALS

33.89

CURRENT DISBURSEMENTS AND CHARGES

2,505.41

TOTAL AMOUNT OF THIS INVOICE

\$35,965.91

PRIOR BALANCE DUE

\$19,231.93

TOTAL BALANCE DUE UPON RECEIPT

\$55,197.84
=====

Agnew MS 33871.71
DF 2094.20
35965.91

PAID

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All invoices are due upon receipt.
Balance due reflects payments received through invoice date.
Any time, disbursements, and charges relating to this matter not shown above will appear on next month's bill.

SCANA018054

FOX KINTNER PLOTKIN & KAHN

1050 Connecticut Avenue, N.W.

Washington, D.C. 20036-5339

Telephone: (202) 857-6000 Telecopy: (202) 857-6395

Taxpayer Identification Number: 53-0214923

CITY OF CHARLESTON, S.C.
C/O REGAN AND CANTWELL
P. O. BOX 1001
18 BROADSTREET, SUITE 610
CHARLESTON, SC 19402

Invoice Number 257962
Invoice Date 07/27/93
Client Number 17009
Matter Number 00000

ATTN: WILLIAM B. REGAN, ESQ.

Re: AQUARIUM PROJECT (\$32,598.00); PUMP STATION (\$2,610.00)

FOR PROFESSIONAL SERVICES RENDERED: THROUGH 30 JUN 1993

ATTORNEY TIME SUMMARY:

Attorney	Hours	Rate
ML FLEISCHAKER	57.9 at	\$305
LE BLATNIK	0.2 at	\$195
LL BEDIG	29.1 at	\$185
RG EDWARDS	77.9 at	\$150
AS SHIFFLETT	6.3 at	\$70

CURRENT FEES

35,208.00

FOR DISBURSEMENTS AND CHARGES:

POSTAGE	6.67
LEXIS/WESTLAW	1,030.07
LONG DISTANCE TELEPHONE	103.16
MESSENGER	32.50
DUPLICATING SUMMARY	142.20
OVERTIME MEALS & CAB	11.00
OVERTIME EXPENSE (SECRETARY)	195.00
DATA BASE SEARCH	9.32
AUTO, PARKING & TAXI	216.10
FREIGHT/OVERNIGHT DELIVERY	17.50

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PAID

SCANA018055

17009 CITY OF CHARLESTON, S.C.
00000 GENERAL
27 JUL 1993

Invoice Number 257962
Page 2

MEALS	9.00
TELECOPIER	345.00
OTHER	2.00
LODGING	231.12
OUT-OF-TOWN MEALS	25.71

CURRENT DISBURSEMENTS AND CHARGES 2,376.35

TOTAL AMOUNT OF THIS INVOICE \$37,584.35

PRIOR BALANCE DUE \$31,538.23

TOTAL BALANCE DUE UPON RECEIPT \$69,122.58

<i>Agherim MS</i>	<i>33786.18</i>
<i>DF</i>	<i>3798.17</i>
	<hr/> <i>37584.35</i>

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PAID

All invoices are due upon receipt.

Balance due reflects payments received through invoice date.

Any time, disbursements, and charges relating to this matter not shown above will appear on next month's bill.

SCANA018056

P

ARENT FOX KINTNER PLOTKIN & KAHN

1050 Connecticut Avenue, N.W.
Washington, D.C. 20036-5339
Telephone: (202) 857-8000 Telecopy: (202) 857-8395
Taxpayer Identification Number: 53-0214923

CITY OF CHARLESTON, S.C.
C/O REGAN AND CANTWELL
P. O. BOX 1001
18 BROADSTREET, SUITE 610
CHARLESTON, SC 29402

Invoice Number 256838
Invoice Date 06/25/93
Client Number 17009
Matter Number 00000

ATTN: WILLIAM B. REGAN, ESQ.

Re: AQUARIUM PROJECT (\$20,000.00); PUMP STATION (\$10,000.00);
DENTYN SITE (\$3,333.50)

FOR PROFESSIONAL SERVICES RENDERED: THROUGH 31 MAY 1993

ATTORNEY TIME SUMMARY:

Attorney	Hours	Rate	Value
ML FLEISCHAKER	37.6 at	\$305 =	11,468.00
LIBRARY	1.3 at	\$80 =	104.00
LL BEDIG	52.9 at	\$185 =	9,786.50
RG EDWARDS	79.3 at	\$150 =	11,895.00
AS SHIFFLETT	0.8 at	\$70 =	56.00
M SHAW	0.2 at	\$120 =	24.00

ADJUSTMENT TO FEES

-2,333.50

CURRENT FEES

31,000.00

FOR DISBURSEMENTS AND CHARGES:

LONG DISTANCE TELEPHONE	65.09
DUPLICATING SUMMARY	153.20
AUTO, PARKING & TAXI	36.88

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PAID

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17009 CITY OF CHARLESTON, S.C.
00000 GENERAL
25 JUN 1993

Invoice Number 256838
Page 2

MEALS	106.48
TELECOPIER	171.00
OUT-OF-TOWN MEALS	5.58

CURRENT DISBURSEMENTS AND CHARGES	538.23
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TOTAL BALANCE DUE UPON RECEIPT	\$31,538.23
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Aquarium	MS	19401.58
	DP	2735.07
	DF	9401.58
		<hr/>
		3518.03

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All invoices are due upon receipt.
Balance due reflects payments received through invoice date.
Any time, disbursements, and charges relating to this matter not shown above will appear on next month's bill.

SCANA018058

SCHEDULE L

TITLE	Environmental Monitoring During Construction												
AMOUNT	\$703,000.												
ATTACHMENTS	L-1 Monitoring and Response Plan L-2 Demonstration Guidelines L-3 Monitoring Chart L-4 24 April 95 Killam Associates letter (Suler to Shakespear)												
EXPLANATION	<p>The Environmental Monitoring and Response Plan (Attachment L-1) was developed by Killam Associates, with extensive agency input and review, to respond to the presence of contaminants on the SCA site. Conformance with this Plan is mandated by the terms of the lease between the City and the NPS. In addition, a Demonstration Program (Attachment L-2), with additional monitoring requirements, must be successfully completed in the initial phase of the construction.</p> <p>In order to comply with these requirements, the services for Environmental Inspection during construction will be required (full-time from the beginning of the construction contract until completion of foundation work and basement slabs and part-time for follow-up monitoring). The samples collected as part of the monitoring will need to be analyzed by a laboratory. In addition, Killam Associates and FR Harris will be needed to provide construction administration (CA) services for the Containment System (Attachment R-1).</p> <p>Note: "Containment" and other items referred to in Killam letter (item # 5, 6, and 7) are addressed on Schedule R.</p> <p>Attached is chart summarizing the various requirements of Monitoring and Response Plan. The column on the right lists estimated costs for the various components. The totals are as follows:</p> <table><tr><td>1.</td><td>Analytical Chemistry Work:</td><td>\$278,000.</td></tr><tr><td>2.</td><td>Environmental Inspection:</td><td>\$355,000.</td></tr><tr><td>3.</td><td>Diver:</td><td>\$20,000.</td></tr><tr><td>4.</td><td>CA on Containment System:</td><td>\$50,000.</td></tr></table>	1.	Analytical Chemistry Work:	\$278,000.	2.	Environmental Inspection:	\$355,000.	3.	Diver:	\$20,000.	4.	CA on Containment System:	\$50,000.
1.	Analytical Chemistry Work:	\$278,000.											
2.	Environmental Inspection:	\$355,000.											
3.	Diver:	\$20,000.											
4.	CA on Containment System:	\$50,000.											

Construction Admin

Inflated Hourly Costs?

Estimated Cost Increases Due to SCE & G Contamination - Schedule L

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revised

SCHEDULE L: ENVIRONMENTAL MONITORING DURING CONSTRUCTION

1 ANALYTICAL LAB WORK (ESTIMATE PER KILLAM ASSOC)	137,500	
2 ENVIRONMENTAL INSPECTOR	150,000	
INCLUDES REVIEW OF SUBMITTALS, FIELD OBSERVATION, MONITORING PROCEDURES, FIELD JUDGMENT, AND CLOSE-OUT MONITORING AND REPORT		
3 DIVER: 38 INSPECTIONS @ \$500 EA	<u>19,000</u>	306,500

SCHEDULE R

TITLE	Site, Building and Exhibits Construction Cost
AMOUNT	\$ 9,409,912.
ATTACHMENTS	R-1 SCA 100% C.D. Estimate, Apr '93, OLI R-2 Construction Cost Escalation Due to Delay, 4/26/95, OLI R-3 24 April 95 Killam Associates letter (Suler to Shakespear) R-4 Calculation Sheet: HASP Cost R-5 Calculation Sheet: Excavation Disposal Costs R-6 Calculation Sheet: Demonstration Program Costs R-7 Containment System R-8 Health and Safety Plan Specifications
EXPLANATION	<p>1. Escalation cost due to first delay of SCA construction start (from January 92 to June 93) due to presence of contaminants on site: see Attachment R-2:</p> <p style="text-align: right;">\$ 1,363,426</p> <p>2. Escalation cost due to second delay of SCA construction start (from June 93 to August 95) due to presence of contaminants on site: see Attachment R-2:</p> <p style="text-align: right;">\$ 2,716,532</p> <p>3. Special Project Conditions (see below for Explanation):</p> <p style="text-align: right;">\$ 5,329,954</p> <p>TOTAL INCREASE TO SITE, BUILDING, AND EXHIBITS CONSTRUCTION COST:</p> <p style="text-align: right;">\$ 9,409,912</p>

Estimated Cost Increases Due to SCE & G Contamination

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EXPLANATION
CONTINUED

f. De-watering Costs: The construction of the Aquarium will require dewatering to allow for excavation and the construction of the foundation. The presence of contaminants in the groundwater will require that effluent from any dewatering be monitored, pre-treated, and disposed via the sanitary sewer system (rather than pumping directly into the river or re-charging the groundwater). Based on consultation with Griffin Dewatering Corporation, the estimated volume to be pumped from a 1,000 foot well-point system designed for typical construction is 100 gal/min, which is approximately 1 million gallons per week, or 30 million gallons over a seven-month foundation-construction period. This converts to 40,110 hundred-cubic-feet (CCF). The prime rate for discharge into the Charleston Public Works sanitary sewer is \$3.11/CCF. The resultant raw cost would be \$125,000. Hook-up fees, increased dewatering to maintain an upward hydraulic gradient while driving piles, pre-treatment, piping, manifold, and monitoring are expected to increase this amount by a factor of two.

ESTIMATED INCREASED COST OF DEWATERING: \$250,000.

Sum, Items a through f:	\$ 4,261,900
X Bonding and Insurance @ 1.2%	\$ 4,313,043
X Fee @ 4.0%	\$ 4,485,565
X Owner's Contingency @ 10%	\$ 4,934,121

Subtotal, a through f, with bonding, insurance, fee, and contingency:
\$ 4,934,121

g. Demonstration Program Costs: The Demonstration Program required by the Lease and permit conditions to verify to the Containment System will require an increase in the schedule of 4.5 months (see Schedules A and B attached to R-6), as well as a re-mobilization after the decision period. See Attachment R-6 for calculations of the resultant increase of Contractor General Conditions due to extension of general construction contract caused by Demonstration Program.

EST. INCREASED COST DUE TO DEMONSTRATION PROGRAM:

\$ 395,833

GROSS TOTAL, SPECIAL PROJECT PROCEDURES:

\$ 5,329,954

Estimated Cost Increases Due to SCE & G Contamination

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EXPLANATION CONTINUED	SPECIAL PROJECT CONDITIONS EXPLANATION
	<p>a. Temporary Utilities: The presence of free product from the former MGP in the utilities right-of-way has caused the NPS to require that all utilities be installed above ground until such time as all response actions (including but not limited to removal of product or impacted soils) are completed on the NPS property or the Landlord determines that earlier installation will not pose a threat to human health or the environment. Without this restriction, the construction schedule calls for undergrounding the utilities (including water supply, sanitary sewer, primary electrical, telephone and CTV, and gas) at the start of the construction. The contractor would then have access to all utilities required during construction on-site, rather than 300 feet away at Concord St. With this restriction, the contractor will need to maintain temporary hook-ups, including hundreds of feet of hoses running to fire hydrants and sanitary sewer manholes, for an estimated 18 months from the notice to proceed. In addition, the trenching for permanent utilities will require a second mobilization of the Special Project Procedures, since the intrusive work (ie. excavation and foundation) will have been completed. This will entail setting up the procedures listed in Item 3 (including an EZ, a CRZ, a De-Con area, Medical Consultant and exams, etc.) below for a second time. The following figure is a verbal estimate from Oppenheim Lewis Inc (cost estimators for the SCA):</p> <p>EST. INCREASED COST DUE TO TEMPORARY UTILITIES: \$50,000.</p> <p>b. Containment System (Attachment R-8): this system was developed by Killam Associates, with extensive agency input and review, to respond to the presence of contaminants on the SCA site. Its implementation is mandated by the terms of the lease between the City and the NPS, and by the terms of the Corps' and OCRM-DHEC's permits for the Aquarium construction. Included in this containment system are the following components: Silt Curtain and Absorbent Boom, Steel Pile and Timber Lagging Wall, and Sand Blanket. See Item 5 of Attachment R-3 for details and cost calculations.</p> <p>EST. WATERSIDE CONTAINMENT SYSTEM COST: \$366,500.</p>

Estimated Cost Increases Due to SCE & G Contamination

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EXPLANATION
CONTINUED

c. Worker Health and Safety (Attachment R-9): Detailed specifications for the General Contractor's HASP were developed by Killam Associates with extensive agency input and review, to protect workers from contaminants on the SCA site. An Exclusion Zone (EZ), a Contaminant Reduction Zone (CRZ), a Support Zone, a Medical Consultant, hazardous waste training (initial, follow-up, and refresher) and record-keeping, medical exams of all employees before and after work in EZ or CRZ, medical record-keeping, Personnel Protection Equipment (PPE), laundering and/or disposal of PPE, air monitoring, equipment decontamination, emergency shower and eye-wash. In addition, Landside Erosion Control measures (such as crushed-stone topping, seeding, mulching, silt fencing, hay bales, geo-textile erosion control matting, stormwater collection basin, vehicle decontamination facilities and protocols) are specified to prevent migration of contaminants from the site. Conformance with both of these specifications is also mandated by the terms of the lease between the City and the NPS. These measures add cost to the project. Per Killam Associates (Attachment R-3, Item 6), the cost increase is 20% to 30% over the value of the work on an uncontaminated site. See Attachment R-4 for calculations.

ESTIMATED INCREASED COST DUE TO HASP: \$1,511,900.

d. Response Plan: Included in the Environmental Monitoring and Response Plan (Attachment L-1) developed by Killam Associates are measures to respond to potential releases of contaminants present on the SCA site. Conformance with this Plan is mandated by the terms of the lease between the City and the NPS. Measures include maintaining a stocked Response Kit, immediate deployment of such in the event of a release, notification procedures, employment of an emergency response firm in the event of a substantial release, and upgrading of containment system components if needed. Estimated cost was provided by Killam Associates (Attachment R-3, Item 7):

ESTIMATED RESPONSE PLAN COST: \$20,000.

e. Dump Fees: The construction of the Aquarium will require the excavation and removal of an estimated 8,250 cubic yards of soil (Attachment R-5). The presence of contaminants in this soil will require analytical, transportation, and disposal costs in excess of the same for clean soils. It is presumed from previous experience that most of the excavated materials will classify as Special Wastes (not Hazardous Wastes) per SCDHEC's regulations. The cost for this work is estimated using a mid-range number between quotes ranging from a low of \$70/cy to a high of \$500/cy (Attachment R-7).

This estimated \$250 per cubic yard can be compared to costs incurred in disposing of 95 cubic yards of drilling wastes from the Killam Site Investigation. Six competitive bids were received for this work; the successful low bid netted an inclusive unit cost of \$547. per cubic yard. The \$250/cy figure reflects an anticipated economy-of-scale reduction of over fifty percent.

ESTIMATED DISPOSAL COSTS: \$2,063,500.

Estimated Cost Increases Due to SCE & G Contamination

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SCHEDULE R: BUILDING & SITE CONSTRUCTION COSTS

1 INFLATION FOR FIRST DELAY (SEE ATTACHED)	1,832,636
2 INFLATION FOR SECOND DELAY (SEE ATTACHED)	1,955,812
3 SPECIAL PROJECT CONDITIONS WITH GENERAL CONDITIONS AND FEE (SEE BELOW)	<u>4,829,130</u>
	8,617,578

SPECIAL PROJECT CONDITIONS:

TEMPORARY UTILITIES	150,000
CONTAINMENT	500,000
WORKER HEALTH & SAFETY	500,000
RESPONSE PLAN	100,000
DUMP FEES	2,000,000
DEWATERING	<u>280,000</u>
	3,530,000

SURCHARGE FOR DEMO PILE PROGRAM SLOWDOWN	<u>250,000</u>
	3,780,000
X GENERAL CONDITIONS OF 8.95% AND FEE OF 4%	<u>610,118</u>
	4,390,118
OWNER'S CONTINGENCY @ 10%	<u>439,012</u>
	4,829,130

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CONSTR START JAN 1992	Jan-93	Jun-93	Jan-94	Jan-95
21,849,606	22,942,087	23,515,639	24,089,191	25,293,651
↗	↗	↗	↗	↗
	1,666,033		1,778,011	
	7.63%		7.56%	

CURRENT BUILDING WITH 8.95%
GENERAL CONDITIONS AND 4%
FEE

SPECIAL CONDITIONS WITH 8.95%
GENERAL CONDITIONS AND 4%
FEE

OWNERS CONTINGENCY @ 10%

0	4,390,118
186,603	516,813
1,832,636	6,784,942

FIRST DELAY	1,832,636
SECOND DELAY & CONTAMINATION COST	6,784,942
TOTAL DELAY COSTS	8,617,578

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RHODES/DAHL CONSTR\$2.XLS 10/7/94

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SCHEDULE W

TITLE	Special Landscaping Requirements
AMOUNT	\$2,728,000
ATTACHMENTS	W-1 Calculation Sheet, Itemization of Costs
EXPLANATION	<p>The land between the Aquarium and Concord Street is planned as an urban park, or front yard to the Aquarium. Given the presence of contamination in the soils and groundwater in this area, and the understanding that capping will be part of the remedial design, special means will be required to landscape the site. Portions are to be "hard-scaped" with pavers, such as bluestone, and other areas are to be "soft-scaped" with plantings (similar in concept to Waterfront Park). The pavers with a surface drainage system function as a cap and the planted areas can be made to act as a cap with the inclusion of a clay liner and surface-soil drainage system. The cost of hard-scaping is higher; the attached worksheet assumes the entire area would be soft-scaped for a baseline cost to cap the area.</p> <p>Absent the contamination, the land would be graded and some fill (topsoil) would be imported in order to prepare for planting. Drainage of the landscaped areas would be by natural percolation through the soils. Due to contamination, the following additional costs will be incurred:</p> <ol style="list-style-type: none"> 1. Clay liner: approx. 6 inches 2. Drainage system for soils above clay liner: drainage mat and piping. 3. Clean fill: a two-foot thickness of arable soil is needed over the clay liner to support the landscaping. Absent contamination, approximately one foot of fill would have been needed; the difference is one foot. 4. Excavation: A build-up over the entire site of two-and-one-half feet is not acceptable, as it would create cost, access, and visual problems. Eighteen inches is the most that can be tolerated, resulting in a need to excavate one foot prior to installation of the clay liner. <p>The attached Calculation sheet has estimates for these costs.</p>

Estimated Cost Increases Due to SCE & G Contamination - Schedule W

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P.3

**SCHEDULE W: SPECIAL REQUIREMENTS FOR LANDSCAPING OR PLANTING
AT AQUARIUM & NPS SITE**

1	PARK SITE - 4 ACRES	
2	4 ACRES X 43,000 SF = 172,000 SF	
3	172,000 SF @ 1' DEPTH = 172,000 CF	
4	172,000 CF DIV BY 27 = 6,370 CY OF SOIL	
5	6,370 CY SOIL X \$250/CY SPECIAL DISPOSAL	1,592,500
6	172,000 SF OF CLAY LINER @ \$4/SF	688,000
7	172,000 SF DRAINAGE SYSTEM @ \$.75/SF	129,000
8	6,370 CY X 2 = 12,740 CY OF CLEAN FILL @ \$25/CY	<u>318,500</u>
	TOTAL COST (\$15.86/SF)	2,728,000

DISCUSSION:

IT WILL COST MORE TO DEVELOP THE PARK-ENTRANCE TO THE AQUARIUM/NPS FACILITY BECAUSE OF THE SITE CONTAMINATION. THE CONCEPT ABOVE ALLOWS FOR INTENSE LANDSCAPING OF THE ENTIRE SITE. SHOULD THE CITY AND THE NPS ELECT TO USE MORE HARDSCAPE, SQUARE-FOOT ALLOWANCE OF \$15.86 MAY BE ADEQUATE TO COVER THIS APPROACH.

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11/17 '94 16:53 LG010215
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Garage

SCHEDULE AA

TITLE	Garage Construction Surcharge
AMOUNT	\$2,343,131.
ATTACHMENTS	AA-1 Calhoun Park Site Plan (Concept) AA-2 Calculation sheet
EXPLANATION	<p>Development plans for the Calhoun Park tract (approximately 154,845 SF total) call for a 1,000 car parking structure, access paving, paved parking for buses, and landscaping (Attachment AA-1). The proposed parking garage will be a structure of roughly 117 ft by 505 ft. The garage will cover an estimated 59,100 SF, and an additional estimated 50,200 SF of the site will be paved. Sidewalks, mostly existing, will cover approximately 3,200 SF. Landscaping is planned for the balance of the site, or approximately 42,400 SF.</p> <p>Costs anticipated due to the presence of contamination on the site include the following:</p> <ol style="list-style-type: none"> 1. Disposal of excavated materials 2. Worker Health and Safety during foundation and paving work 3. Special requirements for landscaping <p>Estimated costs for these are calculated on Attachment AA-2.</p>

Estimated Cost Increases Due to SCE & G Contamination

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P. 4

SCHEDULE AA: GARAGE CONSTRUCTION SURCHARGE

1 DISPOSAL OF FOUNDATION EXCAVATED SOILS. MID-RANGE BETWEEN
\$210,000 LOW AND \$1.5 MILLION HIGH (BASED UPON \$70-\$500/CY) 750,000

2 PILE DRIVING (NO PRE AUGERING)

ADD 20% SURCHARGE TO FOUNDATION COSTS FOR "LOSS OF
DEVELOPMENT POTENTIAL" DUE TO RESTRICTING PILE DESIGN AND
PLACING DUE TO CONTAMINATION.

FOUNDATION COSTS NORMALLY ARE AROUND 30% OF BUILDING COST.
ESTIMATE COST OF \$18 MILLION BUILDING (1000 CARPARKS @ \$15,000
EACH). \$15 MILLION X 30% = \$4.5 MILLION IN FOUNDATIONS.

\$4.5 MILLION X 20% SURCHARGE 900,000

3 HASP REQUIREMENTS FOR CONSTRUCTION OF SURFACE PARKING

SURCHARGE OF 20% OF COST OF SURFACE PARKING. SURFACE PARKING
ESTIMATED FROM \$260,000 TO \$351,288. HASP SURCHARGE = \$50,184 -
\$70,257. 60,000

4 SPECIAL REQUIREMENTS FOR LANDSCAPING

LANDSCAPED AREA = 42,398 SF

COVERAGE @ 1' DEEP = 42,398 CF OR 1,570 CY

1570 CY X \$250/CY FOR DISPOSAL OF SOILS 392,500

1570 CY X \$25/CY CLEAN FILL 39,250

CLAY LINER @ \$4/SF X 42,398 189,584

DRAINAGE SYSTEM @ \$.75/SF X 42,398 SF 31,797

2,343,131

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11/16 '94 19:54

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SCANA018090

Brick Archway (Calhoun St.) & SW Deep Tunnel

COSTS ASSOCIATED WITH CONTAMINATION
FOR
CONSTRUCTION OF CALHOUN/EAST BAY DRAINAGE IMPROVEMENTS
AND
RELOCATION OF THE STORM WATER OUTFALL ON THE NATIONAL PARK
SERVICE PROPERTY

The following documentation has been prepared to support the actual and estimated costs that will or have been incurred by the City to construct the projects known as the Calhoun/East Bay Drainage Improvement Project and Relocation of the Storm Water Outfall on the National Park Service Site. The approach taken has been to compare our cost estimates for the project in 1987 with actual and estimated costs to complete the same project after contamination was discovered. These are substantiated with the engineer's estimates and copies of actual contacts when available along with a letter of explanation provided by the engineer. The following pages of this section include written descriptions of the scope of these two projects.

CALHOUN/EAST BAY DRAINAGE IMPROVEMENTS

The project is currently under construction and will be completed under three separate contracts.

Division I - This division includes construction of an eight foot diameter tunnel, approximately 130 feet deep and 2,900 feet long and four associated shafts. Construction of the tunnel began in January 1995 on a parcel just south of Dockside Condominiums and will align generally with the Calhoun Street right-of-way to a point in Marion Square. The shaft locations are on Concord Street at the beginning of the tunnel, at Marion Square at the terminus of the tunnel and at two locations on Calhoun Street, one near the intersection of Washington Street and one near the intersection of Alexander Street. Excavation of the shaft at the Concord Street locations requires strict compliance with the Material Handling Plan approved by DHEC.

Division II - This division includes construction of the pump station including providing and installing all pumps, the associated piping, the discharge conduits from the pump station to the Cooper River, all controls and the structure to house the controls and electrical equipment.

Division III - This division includes the surface collection system that will collect surface runoff from the street surface and discharge it to one of the four shafts constructed under Division I. Surface collection systems will be constructed in Meeting Street between Mary and Calhoun Streets, in Calhoun Street between Alexander and Washington Streets.

Not Included in this Project - This project does not currently include relocation of any part of the old brick arch drainage and concrete box culvert system that is in Calhoun Street and continues through the NPS property to its point of discharge to the Cooper River. This project does not currently include complete drainage improvements to the Ansonborough Homes property or Marsh and Laurens Streets. Provisions are being made at the pump station site to allow improvements to this area to be tied into the new drainage system but the permit we are now working under does not allow this work to take place at this time. There may be costs associated with providing drainage improvements to Marsh and Laurens Streets that we have not yet estimated.

The design of the tunnel in lieu of the box culvert and open trench construction originally proposed was a result of requirements that materialized during the permitting process for this project. All cost increases, modifications and delays that have taken place on this project developed based on the discovery of contamination at the original pump station location proposed on Calhoun Park.

May 30, 1995
Page 2

RELOCATE STORM WATER OUTFALL ON NATIONAL PARK SERVICE (NPS) SITE

This project includes the relocation of the storm water outfall off of the Park Service property. Before the discovery of contamination it was agreed that the City would relocate its easement. The base line cost for this includes abandoning the existing concrete culvert in place on the Park Service property, building a new junction box at the intersection of the exiting drain and Concord Street, constructing a new drain culvert to redirect the stormwater runoff north beneath Concord street to a point north of the existing outfall next to the proposed Aquarium site. Because of the extensive contamination identified at the Aquarium site the drainage outfall is now proposed to be relocated south down Concord Street and then east to the Cooper River in the same easement identified for construction of the pump station outfall. However, both outfalls will remain as separate structures. The base line cost also assumes that the work would be conducted in clean soils requiring no special handling or precautions.

The actual cost for this relocation will be much greater than the baseline cost and the estimate includes the following assumptions:

1. All soil is contaminated and a material handling plan will have to be developed and approved.
2. In addition to the portion of the drain on the National Park Service property we will have to replace the brick arch drain on Calhoun Street between Concord and Washington Streets.
3. Portions of the drainage system in Concord Street between Calhoun and Charlotte and portions of the drainage system on Washington Street between Calhoun and Charlotte will have to be replaced to prevent infiltration of contaminated groundwater.
4. The alignment has to be revised to a point south of Dockside Condominiums to avoid the more concentrated areas of contamination.

BACKUP INFORMATION
REQUIRED TO SUBSTANTIATE
INCREASED COSTS DUE TO SOIL CONTAMINATION
FOR
DESIGN AND CONSTRUCTION OF THE CALHOUN/EAST BAY DRAINAGE IMPROVEMENT PROJECT
AND
RELOCATION OF THE STORM WATER OUTFALL OFF OF NPS PROPERTY

1. Original Detailed Pump Station Cost Estimate
2. Original Engineering Services Contract and All Amendments Thereto for Design of the Drainage Improvements
3. Division I Construction Contract without Technical Specifications
4. Division II Detailed Cost Estimate
5. Division III Detailed Cost Estimate
6. New Detailed Cost Estimate for Marsh Street Collection System
7. Detailed Estimate for Relocation of the Storm Water Outfall Off of the National Park Service Property Including Best Estimates for Additional Work Required Because of Contamination
 - a. Sketch which defines original alignment and extent of replacement
 - b. Sketch which shows proposed alignment and extent of replacement required due to contamination
8. Construction Services Contract with Environmental Issues Highlighted (May be included in item 2.)
9. List of Other Costs that May Be Incurred but Will Require Additional Effort to Provide Backup Information
 - a. City Staff time required to administer contracts and get permit approvals.
 - b. Increased operation and maintenance costs for operation of the pumps and tunnel collection system.
 - c. Additional losses and damages to the public and City due to continued flooding because project was not built 1987.

**DAVIS
&
FLOYD****DAVIS & FLOYD, INC.
MEMORANDUM**

TO: Adelaide Myrick

FROM: Herbert W. Gilliam *HWG/al*

SUBJECT: Soil Contamination / Remediation
East Bay / Calhoun Stormwater
Drainage Improvements
City of Charleston

DATE: June 1, 1995

JOB NO.: 8560.00

As you requested, Davis & Floyd has reviewed the effect that soil contamination has had on the East Bay / Calhoun stormwater drainage project. You may recall that the original scope of work for this project included a pump station, surface collection system and a main storm water collector that was to be installed through standard trenching and backfilling construction. During the permit process the reviewing agencies required material handling measures at costs exceeding the estimate to construct a deep tunnel system and avoid a majority of the contaminated soil. The project, as currently designed, does not provide additional flood protection beyond the original scope of work. Therefore all increases to the cost and design changes that have occurred are attributed to finding and having to work with the contaminated soils. We offer the following for your consideration.

- (1) An estimate for this project in October of 1987 was \$5,635,000. This included drainage in the Marsh Street area and relocation of the box culvert from the National Park Service property. Engineering cost for this project was \$277,000. Documentation for these costs is included in schedule AC. 2
- (2) The bid for Division I of the drainage project is \$4,690,000. Division II is estimated to cost \$2,636,000 and Division III is estimated to cost \$1,726,700, for a total project cost of \$9,052,700. Marsh Street drainage and the relocated box culvert are not included in this estimate. Documentation is included in schedule AC. 4, AC. 5 and AC.6.
- (3) The RI/FS findings have indicated that there is minor contamination in the Ansonborough Homes area, therefore there is a possibility of including Marsh Street drainage facilities at an estimated cost of \$608,000. Documentation is included in schedule AC. 7.
- (4) The latest indications on scope of work for eliminating groundwater migration to the existing brick arch tunnel include total replacement of the brick arch from the discharge to Washington Street. This work is estimated to cost \$5,093,000. Documentation is included in schedule AC. 8.

• ENGINEERS • ARCHITECTS • PLANNERS • SCIENTISTS •
Davis & Floyd, Inc. | P.O. Box 61689 | Charleston, S.C. 29418 | 3229 West Montague Avenue | Charleston, S.C. 29418 | (803) 554-8602 | Fax (803) 747-6485

SCANA018127

Memo/Ms. Myrick
June 1, 1995
Page 2

- (5) The original design fee for this project was \$277,000. An additional \$222,000 was required to prepare the deep tunnel design. Geotechnical and consulting services are required during construction at a cost to the City of \$93,200. Documentation is included in schedule AC. 9.
- (6) There will be additional cost to the City that is extremely difficult to quantify such as increased operations and maintenance of the deep pump station and tunnel. There is higher horse power on the revised pump station requiring higher power cost.

The City will be required to hire professional divers to maintain the pumps at the tunnel level. Also, non-standard equipment may be required for routine maintenance.

The total cost effect is estimated to be \$9,433,900 (\$15,345,900 less \$5,912,000). If the City would like us to attempt to assign a estimate to item (6) please advise.

Call me with your questions or comments.

:aar

xc:

Laura Cabiness
Clarence Matthews

	<u>PROJECT COST BEFORE CONTAMINATION</u>	<u>PROJECT COST AFTER CONTAMINATION</u>
Pump Station & Collection System	*\$5,635,000	\$ 9,052,700
Marsh Street Collection System		\$ 608,000
Relocation Box Culvert & Pipe Replacement		\$ 5,093,000
Design	\$ 277,000	**\$ 499,000
Services During Construction		\$ 93,200
	<hr/> \$5,912,000	<hr/> \$15,345,900

ADDITIONAL COST INCURRED

\$15,345,900
\$ 5,912,000
 *** \$ 9,433,900

- * This price includes Marsh Street collection system and the relocated box culvert.
- ** This cost includes the \$277,000 for original design that the City paid.
- *** This figure does not include differential cost attributable to item (6) in letter.

Maritime Center

SUMMARY

TITLE	Charleston Maritime Center (CMC)	
AMOUNT	\$8,533,112	
ATTACHMENTS	A	Charleston Maritime Center Site Plan
	B	Charleston Maritime Center Residual Tracts
	C	Calculation Sheets

EXPLANATION Development of the Charleston Maritime Center which is located at 300 Concord Street calls for a 7380 SF building sited adjacent to a public park and two piers (A). The residual property has been master planned (B) and will be developed in five parcels for a mixture of residential and commercial uses.

Costs anticipated due to the presence of contamination on the site include the following:
 I. Initial construction including testing, permitting, dredging and disposal of contaminated silt, upland testing and disposal of contaminated soil in utility corridors, fuel tank shaft, elevator shaft and foundation, and construction of piers, building and site work

II. Maintenance of the CMC marina including testing and disposal of contaminated soils in original spoil disposal basin and one which must be created within six years of initial dredging

III. Five residual tracts-loss in value due to contaminated soil. Development will require testing and disposal of excavated soils in utility corridors, elevator shafts and foundations and following health and safety standards for foundation construction.

IV. Cost of City bonds on \$2.5 million from November of 1993 until May of 1995. Cost of City bonds are justified for this period because the City had intended to develop the Maritime Center much sooner and use it as a catalyst for attracting other development as shown in the master plan in Attachment B. The parking lot site was also seen as a long term development site.

ATTACHMENT C

SUMMARY ENVIRONMENTAL CONTAMINATION COSTS RELATING TO THE DEVELOPMENT OF 300 CONCORD STREET	
	Daniel & Clouter Island Confined Disposal Facility -10 years*
CMC-Construction-See Chart I	\$2,622,431
CMC-Maintenance-See Chart II	\$3,371,085
Residual Tract Development-See Chart III	\$2,290,315
Cost of City Bonds-See Chart IV	\$249,281
TOTAL	\$8,533,112

* Number of years during which contaminated materials will be dredged and disposed

Estimated Cost Increases Due to SCE & G Contamination

SCANA018122

Appendix B
Brown's Directory Excerpts

RHODE ISLAND.

Westerly Light and Power Co., Westerly.

Rts.: N. Y., N. H., & H. Ex.: Ad.

Capital stock, pref., \$200,000; com., \$500,000; ann. div. pref., 8 p. c.
 Bonds, \$375,000; due 1937; int., 6 p. c.
 President, Wm. Clark.
 Secretary and treas., T. B. Moore.
 Mgr. and pur. agt., M. H. Spellman.
 Now bus. mgr., M. H. Spellman.
 Process manufacture, Lowe.
 Price coal per ton, delivered, \$0.
 Price oil per gal., delivered, 3c.
 Pop. dist. supplied, 10,000; of city, 12,000.
 No. motors, reg., 800.
 No. consumers, 600.
 Miles of mains, approx., 8.
 Street main pressures, max., 5 in.; min., 3 in.
 Price gas: Light and Fuel, gross, \$1.60;
 Light, net, \$1.05; Fuel, net, \$1.20.
 Max. day's send out, 65,000 c. f.
 Gas holder capacity, 130,000 c. f.
 Annual sales, approx., 15,000,000 c. f.
 Gas unaccounted for, 10 p. c.
 Candle-power, 18.
 Ranges in use, 650; heaters, 60; water heaters, 40.
 No. Humphrey commercial gas arc lamps, 75.
 Supplies Westerly, R. I., and Pawcatuck, Conn.

ELECTRICAL DEPARTMENT.

System operated: Arc and incand., A. C., 3 phase, 60 cycles power, A. C.
 Generating capacity: Lighting, 800 kw.
 Voltage: Arcs, 55; incand., 110; power, 550.
 City lighting contract: Arc and incand., all night schedule.
 No. public arcs, 49; 400 watt. Price per year, \$18.
 No. public incand., 760; 50-40 watt. Price per year, \$18.
 Commercial lighting: No. arcs, 30; No. incand., 20,000.
 Price current per kw. hr., gross, 10c. Disc., up to 60 p. c.
 Other lamps, 10 Normal and 1500 Tungstens.
 Power circuits: No. motors, 110; price per h. p., 5c. to 1.75c.
 Output of station, kw. for year, 2,225,000.
 Generating power used, Diesel oil engine rated h. p., 1,125.
 Cost of station fuel oil, 3c. per gal.

Woonsocket Gas Co., Woonsocket.

Rts.: N. Y., N. H., & H. Ex.: Ad.; W. & P.

Capital stock, \$250,000.
 President, Frank B. Holden.
 Secretary, Chester M. Clark.
 Treasurer, Henry B. Sawyer.
 Gen. mgr., Alfred P. Townsend.
 Superintendent, C. F. Stevens.
 Now bus. mgr., R. C. Newcomb.
 Process manufacture, Standard, Lowe.
 Pop. dist. supplied, 80,000; of city, 68,000.
 No. consumers, 6,400.

is impervious to insects, dust and
 mite. See advertisement, page xxxii.

RHODE ISLAND.—SOUTH CAROLINA.

247

No. motors, reg., 4,121; prepay., 2,845.
 Price gas: Light and Fuel, gross \$1.30; net \$1.20; 2c. oil over 600,000 c. f.
 Miles of mains, approximate, 41.1.
 Street main pressures, max., 4.2 in.; min., 3 in.
 High pressure main, 12 in.; press., 6-16 lbs.
 Max. day's send out, 410,000 c. f.

Gas holder capacity, 330,000 c. f.
 Annual sales, approx., 60,888,700 c. f.
 Gas unaccounted for, 6-4 p. c.
 Candle-power, 200. Cal. val., 620 B. t. u.
 Ranges in use, 1,503; heaters, 860; water heaters, 300.
 Supplies Woonsocket, R. I.

SOUTH CAROLINA.

Total population, 1,515,400.

Anderson Gas Co., Anderson.

Rts.: Chas. & West. Co.; Blue Ridge. Ex.: So.

(Plant under construction.)
 Capital stock, \$100,000.
 President, Arthur Medwedoff.
 Sec. and treas., George O. Thompson.
 Price gas: Light and Fuel, gross, \$1.00; net, \$1.05.
 Will supply Anderson.

Charleston Consolidated Railway and Lighting Co., Charleston.

Rts.: A. C. L.; So. S. Ry.; B. & O. Co.; So. Ry.; Clyde SS.; Sea Isl. Co.; C. S. Co. Ex.: So.

Capital stock, pref., \$1,500,000 auth., \$500,000 issued; com., \$3,000,000 auth., \$1,500,000 issued.

Bonds, \$2,500,000; due 1900; int., 5 p. c.
 President, Philip H. Gadsden.
 Vice-pres. and gen. mgr., O. H. Waring.
 Secretary, W. F. Douthett.
 Treasurer, Lewis Lillie.
 Asst. treas., C. M. Benedict.
 Pur. agent, J. A. Pearson.
 Process manufacture, Lowe.
 Pop. city supplied, 58,838.
 No. consumers, 4,200.
 No. motors, reg., 0,040; prepay., 0.
 Miles of mains, approximate, 13.
 Price gas: Light and Fuel, \$1.20.
 Public Welsbach lamps, 600; price per year, \$10.

Contract includes repairs, care, lighting and extinguishing.
 No. hours lamp is lighted per year, 4,000.
 Candle-power, 20.
 Annual sales, approx., 158,321,000 c. f.
 Ranges in use, 3,092; heaters, 2,600; water heaters, 700.
 No. Welsbach and Humphrey gas arc lamps, 647.
 Supplies Charleston, S. C.

ELECTRICAL DEPARTMENT.

System operated: Arc, 110 amp., A. C. series St. arcs; incand., 2,500-volt, single phase; power, 2,300-volt, 3 phase, 600-volt D. C.
 Generating capacity: City station, 2,500 kw., A. C., 625 kw. D. C. (includes railway capacity); reamshore, 225 kw. A. C., 400 kw. D. C. (includes railway capacity).
 Voltage: Arcs, series; 2,500 prim.; 110-220 sec.; 600 D. C.

City lighting contract: Hours lighted per year: Arc and incand., 4,000.
 No. public arcs, 280; 550 watt.
 No. public incand., 80; 112 watt; 11, 175 watt.
 Commercial lighting: No. arcs, 101; No. incand., 53,080.
 Price current per kw. hr., gross and net, 12c. to 10c.
 Power circuits: No. motors, 335; price per kw. hr., gross and net, 7c. to 2.5c.; large power, 1c. to 1 1/2c. per kw. hr., plus primary charge.
 Output of station, kw. for year, 7,210,724.
 Generating power used, 4,100 kw. steam-driven generators (includes railway generators).

Columbia Railway, Gas and Electric Co., Columbia.

Rts.: A. C. L.; Col. Nev. & Laurens; S. A. L.; So. S. Ry.; N. Y.; Col. & Geo. Co.

Capital stock, auth., \$500,000; issued, \$200,000.
 Bonds, \$225,000; due 1900; int., 5 p. c.
 President and treas., B. W. Robertson.
 Secretary, G. M. Berry.
 Gen. mgr. and pur. agt., G. K. Dustin.
 Superintendent, S. W. Brown.
 Process manufacture, Lowe.
 Price coke per ton, delivered, \$4.50.
 Pop. dist. supplied, 20,000; of city, same.
 No. consumers, 1,600.
 No. motors, reg., 1,200; prepay., 400.
 Miles of mains, approx., 24.
 Price gas: Bldg scale, \$1.50 to \$1.25 net.
 Candle-power, 21.
 Annual sales, approx., 48,000,000 c. f.
 Gas unaccounted for, 21 p. c.
 Max. day's send out, 281,000 c. f.
 Total gas holder capacity, 800,000 c. f.
 Street main pressures, max., 4.5 in.; min., 3.2 in.
 Ranges in use, 1,200.
 No. commercial gas arc lamps, 850.
 Supplies Columbia.
 For Electrical Department, see "reports received too late."

Greenville Gas & Electric Light & Power Co., Greenville.

Rts.: Chas. & West.; O., Gr. & Knox; So. Ex.: So.

(Controlled by Southern Power Co.)
 Capital stock, com., auth., \$100,000; issued, \$33,500.
 Bonds, \$250,000; due 1930; int., 5 p. c.
 President, Z. V. Taylor.
 Secretary and treasurer, E. C. Marshall.

BEFORE ACCEPTING any kind of street lighting inquire about the best:
 Welsbach STREET LIGHTING. See advertisement, page xxxii.

RHODE ISLAND.

Price gas: Light and fuel, gross \$1.20; net \$1.10.
No. public lamps, 25; lighted by moon scale.
Price does not include repairs, care, lighting and extinguishing.
Ranges in use, 250; heaters, 520; water heaters, 10.
No. commercial gas are lamps, 20.
Supplies: Provoked, Central Falls, Lincoln and Cumberland.

Providence Gas Co., Providence.

Rts.: N. Y. N. H. & H. Prov. & Dun. S. B. A. R. F. & N. S. Gas Co.; Am. & N. H. Gas Co.; N. Y. N. H. & H. Gas Co.; N. Y. N. H. & H. Gas Co.

Capital stock, \$1,000,000; auth., \$4,000,000.
Issued; amount, \$1,000,000; 8 p. c.

President, John W. Clark.
Vice-pres., C. H. Marchant.
Treasurer, Arthur W. Clark.
Sec. and gen. mgr., Arthur W. Clark.

Process manufacture, Coal and Lignite.
Mixtures supplied, coal, 4 p. c.; water, 25 p. c.
Miles of main, approx. 375.

Candle-power, 20,000; of city, 220,000.
Max. day's send out, 6,000,000 c. f.
Annual sales, approx. 1,500,000,000 c. f.

Gas unaccounted for, 2,000,000 c. f.
Pop. of city, 220,000; of city, 220,000.
Consumers and meters, 20,000.

Price gas: Light and fuel, gross, 95¢; net, 85¢.
Supplies city of Providence and towns of Cranston and East Providence.

Tiverton Gas Co., Tiverton.
Rts.: N. Y. N. H. & H. S. B. R. S. Gas Co. Ex. N. Y. & H.

(Plant owned by William E. King, F. F. G. King, and one silent partner.)
President, Benjamin S. King.
Vice-pres. and treas., F. F. G. King.
Gen. mgr., Wm. E. King.

Gas purchased from Fall River Gas Works Co.
Miles of main, approx. 12; street main, 10.
Annual sales, approx. 5,000,000 c. f.

Population, approx. 4,000.
No. meters, 120; prop., 5.
Price gas: Light and fuel, gross, \$1.10.
No. public lamps, 40.

Supplies Tiverton.
Westerly Light and Power Co., Westerly.
Rts.: N. Y. N. H. & H. Ex. Ad.

Capital stock, pref., \$200,000; com., \$300,000;
ann. div. pref., 5 p. c.
Bonds, \$275,000; due 1937; int., 5 p. c.

President, Wm. Clark.
Treasurer, F. B. Wilcox.
Gen. mgr., R. G. Thackeray.

Plant, 1000 ft. high.
Annual sales, approx. 1,000,000 c. f.
Population, approx. 4,000.

No. meters, 120; prop., 5.
Price gas: Light and fuel, gross, \$1.10.
No. public lamps, 40.

Supplies Tiverton.
Westerly Light and Power Co., Westerly.
Rts.: N. Y. N. H. & H. Ex. Ad.

Capital stock, pref., \$200,000; com., \$300,000;
ann. div. pref., 5 p. c.
Bonds, \$275,000; due 1937; int., 5 p. c.

President, Wm. Clark.
Treasurer, F. B. Wilcox.
Gen. mgr., R. G. Thackeray.

Plant, 1000 ft. high.
Annual sales, approx. 1,000,000 c. f.
Population, approx. 4,000.

No. meters, 120; prop., 5.
Price gas: Light and fuel, gross, \$1.10.
No. public lamps, 40.

Supplies Tiverton.
Westerly Light and Power Co., Westerly.
Rts.: N. Y. N. H. & H. Ex. Ad.

Capital stock, pref., \$200,000; com., \$300,000;
ann. div. pref., 5 p. c.
Bonds, \$275,000; due 1937; int., 5 p. c.

President, Wm. Clark.
Treasurer, F. B. Wilcox.
Gen. mgr., R. G. Thackeray.

Plant, 1000 ft. high.
Annual sales, approx. 1,000,000 c. f.
Population, approx. 4,000.

No. meters, 120; prop., 5.
Price gas: Light and fuel, gross, \$1.10.
No. public lamps, 40.

Gen. mgr. and pur. mgr., M. H. Spillman.
New bus. mgr., M. H. Spillman.
Process manufacture, Lignite.
Mixtures supplied, coal, 4 p. c.; water, 25 p. c.
Miles of main, approx. 375.
Candle-power, 20,000; of city, 220,000.
Max. day's send out, 6,000,000 c. f.
Annual sales, approx. 1,500,000,000 c. f.

Gas unaccounted for, 2,000,000 c. f.
Pop. of city, 220,000; of city, 220,000.
Consumers and meters, 20,000.

Price gas: Light and fuel, gross, 95¢; net, 85¢.
Supplies city of Providence and towns of Cranston and East Providence.

Tiverton Gas Co., Tiverton.
Rts.: N. Y. N. H. & H. S. B. R. S. Gas Co. Ex. N. Y. & H.

(Plant owned by William E. King, F. F. G. King, and one silent partner.)
President, Benjamin S. King.
Vice-pres. and treas., F. F. G. King.
Gen. mgr., Wm. E. King.

Gas purchased from Fall River Gas Works Co.
Miles of main, approx. 12; street main, 10.
Annual sales, approx. 5,000,000 c. f.

Population, approx. 4,000.
No. meters, 120; prop., 5.
Price gas: Light and fuel, gross, \$1.10.
No. public lamps, 40.

Supplies Tiverton.
Westerly Light and Power Co., Westerly.
Rts.: N. Y. N. H. & H. Ex. Ad.

Capital stock, pref., \$200,000; com., \$300,000;
ann. div. pref., 5 p. c.
Bonds, \$275,000; due 1937; int., 5 p. c.

President, Wm. Clark.
Treasurer, F. B. Wilcox.
Gen. mgr., R. G. Thackeray.

Plant, 1000 ft. high.
Annual sales, approx. 1,000,000 c. f.
Population, approx. 4,000.

No. meters, 120; prop., 5.
Price gas: Light and fuel, gross, \$1.10.
No. public lamps, 40.

Supplies Tiverton.
Westerly Light and Power Co., Westerly.
Rts.: N. Y. N. H. & H. Ex. Ad.

Capital stock, pref., \$200,000; com., \$300,000;
ann. div. pref., 5 p. c.
Bonds, \$275,000; due 1937; int., 5 p. c.

President, Wm. Clark.
Treasurer, F. B. Wilcox.
Gen. mgr., R. G. Thackeray.

Plant, 1000 ft. high.
Annual sales, approx. 1,000,000 c. f.
Population, approx. 4,000.

No. meters, 120; prop., 5.
Price gas: Light and fuel, gross, \$1.10.
No. public lamps, 40.

Supplies Tiverton.
Westerly Light and Power Co., Westerly.
Rts.: N. Y. N. H. & H. Ex. Ad.

Capital stock, pref., \$200,000; com., \$300,000;
ann. div. pref., 5 p. c.
Bonds, \$275,000; due 1937; int., 5 p. c.

President, Wm. Clark.
Treasurer, F. B. Wilcox.
Gen. mgr., R. G. Thackeray.

Plant, 1000 ft. high.
Annual sales, approx. 1,000,000 c. f.
Population, approx. 4,000.

No. meters, 120; prop., 5.
Price gas: Light and fuel, gross, \$1.10.
No. public lamps, 40.

Supplies Tiverton.
Westerly Light and Power Co., Westerly.
Rts.: N. Y. N. H. & H. Ex. Ad.

Capital stock, pref., \$200,000; com., \$300,000;
ann. div. pref., 5 p. c.
Bonds, \$275,000; due 1937; int., 5 p. c.

President, Wm. Clark.
Treasurer, F. B. Wilcox.
Gen. mgr., R. G. Thackeray.

Plant, 1000 ft. high.
Annual sales, approx. 1,000,000 c. f.
Population, approx. 4,000.

No. meters, 120; prop., 5.
Price gas: Light and fuel, gross, \$1.10.
No. public lamps, 40.

Supplies Tiverton.
Westerly Light and Power Co., Westerly.
Rts.: N. Y. N. H. & H. Ex. Ad.

SOUTH CAROLINA.

SOUTH CAROLINA.

Total population (1910 U. S. Census), 1,511,400.

City lighting contract: Hours lighted per year, 400; cost, \$400.
No. public lamps, 288; 425 watts.
No. public mains, 88; 112 watt; 11, 175 watts; 107, 75 watts.

Commercial lighting: No. arcs, 15; No. incandescent, 60,574.
Price current per kw. hr., gross and net, 10¢ to 4¢.
Power plants: No. motors, 400; price per kw. hr., gross and net, 4¢ to 2¢; large power, 3¢ to 1½¢ per kw. hr., plus delivery charge.

Output of station, kw. for year, \$107,412.
Generating power used, 6,000 kw. steam turbines; 475 kw. steam engines (includes railway generators).

Columbia Railway, Gas and Electric Co., Columbia.
Rts.: A. C. L.; Col. Neg. & Lignite; S. A. L.; So. S. B.; N. Y. & H. Gas Co.

Capital stock, auth., \$3,000,000; issued, \$2,881,600 (\$2,000,000 com.; \$881,600 pref.).
Annual div. pref., 6 p. c.
Bonds, \$2,454,000; due 1939; int., 5 p. c.

President and treas., E. W. Robertson.
Sec.-treas., M. C. Wright.
Gen. mgr. and pur. mgr., G. K. Dornin.

New bus. mgr., A. R. McCoy.
Superintendent, S. W. Brown.
Process manufacture, Lignite.

Price coke per ton, delivered, \$4.80.
Price oil per gal., delivered, 45¢.
Miles of main, approx. 20.

Candle-power, 21; calorific value, 600 B. T. U.
Annual sales, approx. \$2,000,000 c. f.
Gas unaccounted for, 16 B. T. U.

Max. day's send out, 312,000 c. f.
Total gas holder capacity, 800,000 c. f.
Street main pressures, max., 4.5 in.; min., 3.2 in.

Pop. city, approx. 30,000.
No. consumers, 2,000.
No. meters, 2,000.

Price gas: Sliding scale, \$1.50 to \$1 net.
Inages in use, 1,000.
No. commercial gas are lamps, 400.

Supplies Columbia.
ELECTRICAL DEPARTMENT.
System operated: Arc, D. C. series; incand., 1 p. c.; 40 volts; power, 3 p. c.; 100 cycles.

Generating plant: Power, 10,000 kw.
Voltage: Arc, 72; series, incand., 115-210; power, 120.

City lighting contract: 11 hours lighted per year; Arc, all night.
No. public arcs, 237; 375 watts; price per arc, \$22.
No. public incand., 147.

Commercial lighting: No. arcs, 147.
Price current per kw. hr., gross, 12¢. Dis-count, 10 p. c.

System operated: Arc, 6.6 amp. A. C. series; St. arcs, incand., 2,000-volt, incand., 1000; power, 2,000-volt, 3 phase, 500-hp. D. C. Generating capacity: City station, 1,000 kw.

Max. day's send out, 400,000 c. f. (incand. railway capacity).
Voltage: Arc, 72; series, 2,000; power, 110-220 sec.; 600 D. C.

System operated: Arc, 6.6 amp. A. C. series; St. arcs, incand., 2,000-volt, incand., 1000; power, 2,000-volt, 3 phase, 500-hp. D. C. Generating capacity: City station, 1,000 kw.

Max. day's send out, 400,000 c. f. (incand. railway capacity).
Voltage: Arc, 72; series, 2,000; power, 110-220 sec.; 600 D. C.

System operated: Arc, 6.6 amp. A. C. series; St. arcs, incand., 2,000-volt, incand., 1000; power, 2,000-volt, 3 phase, 500-hp. D. C. Generating capacity: City station, 1,000 kw.

Max. day's send out, 400,000 c. f. (incand. railway capacity).
Voltage: Arc, 72; series, 2,000; power, 110-220 sec.; 600 D. C.

System operated: Arc, 6.6 amp. A. C. series; St. arcs, incand., 2,000-volt, incand., 1000; power, 2,000-volt, 3 phase, 500-hp. D. C. Generating capacity: City station, 1,000 kw.

Max. day's send out, 400,000 c. f. (incand. railway capacity).
Voltage: Arc, 72; series, 2,000; power, 110-220 sec.; 600 D. C.

System operated: Arc, 6.6 amp. A. C. series; St. arcs, incand., 2,000-volt, incand., 1000; power, 2,000-volt, 3 phase, 500-hp. D. C. Generating capacity: City station, 1,000 kw.

Max. day's send out, 400,000 c. f. (incand. railway capacity).
Voltage: Arc, 72; series, 2,000; power, 110-220 sec.; 600 D. C.

System operated: Arc, 6.6 amp. A. C. series; St. arcs, incand., 2,000-volt, incand., 1000; power, 2,000-volt, 3 phase, 500-hp. D. C. Generating capacity: City station, 1,000 kw.

Max. day's send out, 400,000 c. f. (incand. railway capacity).
Voltage: Arc, 72; series, 2,000; power, 110-220 sec.; 600 D. C.

System operated: Arc, 6.6 amp. A. C. series; St. arcs, incand., 2,000-volt, incand., 1000; power, 2,000-volt, 3 phase, 500-hp. D. C. Generating capacity: City station, 1,000 kw.

The Welbach Street Lamp is impervious to insects, dust and draughts, consequently it never fails. See advertisement, page xxxii.

The candle power of Welbach Street Lighting units is constantly obtained by reason of having properly designed fixtures for all kinds of manufactured gas, also natural gas, and Welbach maintenance. See advertisement, page xxxii.

RHODE ISLAND.

Westerly Light and Power Co., Westerly.
 RR: N. Y. N. H. & H. Ex: Ad.
 Capital stock, pref., \$200,000; com., \$300,000;
 add. div. pref., 5 p. c.
 Bonds, \$375,000, due 1937; int., 5 p. c.
 President, Wm. Clark.
 Sec'y and treas., F. B. Wilcox.
 Asst. treas., Fred Modell.
 Gen. mgr. and pur. agt., M. H. Spellman.
 New bus. mgr., M. H. Spellman.
 Superintendent, P. N. Clark.
 Process manufacture, Lowe.
 Price cost per ton, delivered, \$0.50.
 Price oil per gal., delivered, 4c.
 Candle-power, 20. Calorific value, 600 B. t. u.
 Annual prod., approx., 22,000,000 c. f.
 Max. day's send out, 89,000 c. f.
 Gas holder capacity, 100,000 c. f.
 Holder pressure, max., 8 lb.
 Miles of mains, approx., 17.5.
 Street main pressure, max., 8 lb.; min., 5 lb.
 Annual sales, approx., 18,500,000 c. f.
 Gas unaccounted for, 10 p. c.
 Pop. dist. supplied, 10,000; of city, 9,600.
 Consumers and meters, 1,234.
 Price gas: Light and Fuel, gross, \$1.50;
 Light, net, \$1.80; Fuel, net, \$1.20.
 Ranges in use, 570; heaters, 55; water heat-
 ers, 123.
 No. commercial gas arc lamps, 22.
 Supplies Westerly, H. I. and Pawcatuck.
 Conn. Supplies also The Mystic Power
 Co.

ELECTRICAL DEPARTMENT.

Capital apportioned to elec. plant, approx.,
 two-thirds.
 System operated: Arc and incand., A. C., 3
 phase, 60 cycle power, A. C.
 Generating capacity: Lighting, 800 kw.
 Voltage: Arc, 55; incand., 110; power, 550.
 City lighting contract: Arc and incand., all
 night schedule.
 No. public arc chusters, 23; 300 watt. Price
 per year, \$54.
 No. same arc lamps, 10. Price per year, \$60.
 No. public incand., 823; 60-40 watt. Price per
 year, \$16.40 watt; \$18.60 watt.
 Commercial lighting: No. arcs, 20; No. in-
 cand., 27,000.
 Price current per kw. hr., gross and net, 10c.
 up to 50 p. c.
 Other lamps, 4,600 Tungstens.
 Power circuits: No. motors, 121; price per
 h. p., 6c. to 1.75c.
 Output of station, kw. for year, 2,271,000.
 Generating power used, Diesel oil engine
 rated h. p., 1,125.
 (About 80 p. c. of power purchased.)
 Cost of station fuel oil, 4c. per gal.
 Blackstone Valley Gas and Electric Co., Woonsocket.
 RR: N. Y. N. H. & H. Ex: Ad.; E. & P.
 Operated by Stone & Webster Mgt. Assn.
 (For capitalization and officers see this com-
 pany's report under Appendix.)
 Gas supplied under high pressure from Paw-
 tucket.

They among gas companies and
 the proper maintenance of gas
 city. See advertisement, page

RHODE ISLAND.—SOUTH CAROLINA.

970

Candle-power, 20. Cal. val., 620 B. t. u.
 Max. day's send out, 410,000 c. f.
 Gas holder capacity, 500,000 c. f.
 Miles of mains, approximately, 41.1.
 Street main pressure, max., 4.2 lb.; min., 3 lb.
 High pressure mains, 12 mi.; pressure, 6-15 lbs.
 Annual sales, approx., 90,888,700 c. f.
 Gas unaccounted for, 5.4 p. c.

Pop. dist. supplied, 45,000; of city, 38,123.
 No. consumers, 5,400.
 No. meters, reg., 3,121; property, 2,848.
 Price gas: Light and Fuel, gross, \$1.50; net
 \$1.30; 75c. all over 600,000 c. f.
 Ranges in use, 1,503; heaters, 850; water
 heaters, 600.
 Supplies Woonsocket, R. I.

SOUTH CAROLINA.

Total population (1910 U. S. Census), 1,515,400.

Anderson Gas Co., Anderson.

RR: Clin. & West. C.; Blue Ridge; So.
 Ex: So.
 Capital stock, \$100,000.
 Bonds, \$100,000, due 1912; int., 5 p. c.
 President, W. W. Hoss (Philadelphia).
 Secretary, W. Charles Jenkins.
 Treasurer, R. A. Hirsch (Waverly, N. Y.).
 Purchasing agent, W. R. Wones.
 Engineer, W. R. Wones.
 Gen. mgr. and supt., W. R. Wones.
 New bus. mgr., W. R. Wones.
 Process manufacture, Lowe.
 Price of coke per ton, delivered, \$5.15.
 Price of oil per gal., delivered, 4.8c.
 Candle-power, 20.
 Calorific value, 600 B. t. u.
 Annual prod., 10,000,400 c. f.
 Max. day's send out, 80,000 c. f.
 Gas holder capacity, 50,000 c. f.
 Holder pressure, max., 3 lb.
 Miles of mains, 15 high pressure.
 Pressure carried, 25 lbs.
 Annual sales, approx., 10,000,000 c. f.
 Gas unaccounted for, 5 p. c.
 Pop. city, 9,634; of dist. supplied, 10,000.
 No. consumers, 550.
 No. meters, reg., 300; property, 250.
 Price gas: Light and Fuel, gross, \$1.00; net,
 \$1.50.
 No. ranges, 325; heaters, 40; water heaters,
 25.
 No. commercial gas arc lamps, 112.
 Supplies Anderson and suburbs.

Charleston Consolidated Railway and Lighting Co., Charleston.

RR: A. C. L.; So. B. B.; B. & O. Co.; So.
 88.; Clyde RR.; Sea Isl. Co.; C. 88. Co.
 Ex: So.
 Capital stock, pref., \$1,500,000 auth., \$500-
 000 issued; com., \$3,000,000 auth., \$1,500-
 000 issued.
 President, Philip H. Gadsden.
 Vice-presidents, Walton Clark, Lewis Little.
 Vice-pres. and gen. mgr., O. H. Waring.
 Secretary, G. W. Curran.
 Treasurer, James Hall.
 Asst. treas., O. M. Benedict.
 Pur. agent, J. A. Pearson.
 Process manufacture, Lowe.
 Candle-power, 20.
 Miles of mains, approximately, 67.80.
 Annual sales, approx., 212,411,827 c. f.

Pop. city supplied, 59,839.
 No. consumers, 10,020.
 No. meters, reg., 6,434; property, 203.
 Price gas: Light and Fuel, \$1.10.
 Public Wobach lamps, 1001; price per year,
 \$10.
 Contract does not include repairs, etc.
 No. hours lamp is lighted per year, 4,000.
 Ranges in use, 5,837; heaters, 4,847; water
 heaters, 1,123.
 No. commercial gas arc lamps, 1,120.
 Supplies Charleston, S. C.

ELECTRICAL DEPARTMENT.

System operated: Arc, 60 amp., A. C. series
 St. arcs; incand., 2,800-volt, single phase;
 power, 2,800-volt, 3 phase, 600-volt D. C.
 Generating capacity: City station, 5,000 kw.,
 A. C., 1,800 kw. D. C. in m. g. sets (in-
 cludes railway capacity).
 Voltage: Arc, series; 2,800 prim.; 110-220
 sec.; 600 D. C.
 City lighting contract: Hours lighted per
 year: Arc and incand., 4,000.
 No. public arcs, 840; 425 watts.
 No. public incand., 11,76 watts.
 Commercial lighting: No. arcs, 41; No. in-
 cand., 21,887.
 Price current per kw. hr., gross and net, 10c.
 to 4c.
 Power circuits: No. meters, 507; price per
 kw. hr., gross and net, 6c. to 2.5c.; large
 power, 8c. to 1c. per kw. hr., plus pri-
 mary charge.
 Output of station, kw. for year, 9,277,188.
 Generating power used, 8,000 kw. steam tur-
 bines; 675 kw. steam engines (includes
 railway generators).

Chester City Gas Co., Chester.

RR: C. & No. W.; Lancaster & Chester;
 H. A. L. Co. Ex: So.

(Under construction.)
 Controlled by International Gas & Electric
 Co.

Capital stock, \$200,000
 President, G. Buchanan.
 Sec'y and treas., A. H. Hawley.
 General manager, F. H. Hickok.
 Engineer, J. D. Shattuck.
 Superintendent, M. J. Love.
 Auditor and pur. agent, Horace Beeson.
 Process manufacture, Lowe.

The Welsbach Street Lighting Co. of America is in a posi-
 tion to render competent service at the lowest price compatible
 with satisfactory results. See advertisement, page xxxii.

SOUTH CAROLINA.

283

Annual sales, approx., \$100,000 c. f.
Gas unaccounted for, 5 p. c.
Pop. city, 6,034; of dist. supplied, 10,000.
No. consumers, 520.
No. meters, reg. 375; prepays, 150.
Price gas: Light and Fuel, gross, \$1.00; net, \$1.50.
No. ranges, 470; heaters, 50; water heaters, 20.
No. commercial gas are lamps, 20.
Supplies Anderson and Columbia.

Charleston Consolidated Railway and Lighting Co., Charleston.
Mfrs.: A. C. T. & Co., H. A. H., Car. & W., B. H. & C. Co., City of Charleston, S. C., Co. 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100.
Capital stock, pref., \$1,000,000; auth., \$200,000; issued, \$1,000,000; paid up, \$1,000,000.
President, Philip H. Gaudin.
Vice-President, William C. H. Waring.
Secretary, O. W. Curran.
Treasurer, James Hall.
Asst. Treas., O. M. Benedict.
Gen. mgr., J. A. Pearson.
Process manufacture, Lowe.
Candle-power, 20.
Miles of mains, approximate, 60.25.
Annual sales, approx., \$2,125,102 c. f.
Pop. city supplied, 60,000.
No. consumers, 7,000.
No. meters, reg. 6,517; prepays, 208.
Price gas: Light and Fuel, \$1.10.
Public Yelbach lamps, 607.
No. house lamp is lighted per year, 4,385.
No. houses in use, 1,800; heaters, 4,225; water heaters, 1,278.
No. commercial gas are lamps, 1,170.
Supplies Charleston, S. C.

ELECTRICAL DEPARTMENT.

System operated: Arc, 0.8 amp. A. C. series St. arc; incand., 2,800-volt, single phase; power, 2,800-volt, 3 phase, 500-volt D. C.; also 6,000-volt, 3 phase.
Generating capacity: City station, 5,000 kw., A. C., 1,800 kw. D. C. in m. & s. (in-charge railway capacity).
Voltage: Arc, series; 2,800 prim.; 110-220 sec.; 500 D. C.
City lighting contracts: Hours lighted per year: Arc and incand., 4,000.
No. public area: 380, 425 watts; 28, 310 watts.
No. public incand., 11, 40 watts.
Commercial lighting: No. arcs, 24; No. series incand., 11; No. incand., 38,602.
Price current per kw. hr., gross and net, 10c. to 4c.
Power circuits: No. meters, 404; price per kw. hr., gross and net, 6c. to 25c.; large power, 8c. to 1c. per kw. hr., plus primary charge.
Output of station, kw. for year, 10,337,748.
Generating power used, 5,000 kw. steam turbines (includes railway generators).

EMINENT DOMAIN

Extensions of mains, rights of way, consents of Commissions and property owners. You can keep yourself fully informed by using
OFFICIAL PUBLIC SERVICE REPORTS, 74 Broadway, New York

Charter City Gas Co., Chester.
(Company out of existence; franchise forfeited.)

Columbia Gas Light Co., Columbia.
Mfrs.: A. C. T. & Co., H. A. H., Car. & W., B. H. & C. Co., City of Charleston, S. C., Co. 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100.

Controlled by Columbia Railway Gas & Electric Co.
(For capitalization, bonds, etc., see Appendix.)
President and Treas., H. W. Robertson.
Secretary, H. Charlton Wright.
Gen. mgr. and pur. agent, Alfred Wallace.
Asst. mgr., E. W. Brown.
Superintendent, B. W. Brown.
Process manufacture, Lowe.
Price coke per ton, delivered, \$4.70.
Price oil per gal., delivered, 4.85c.
Candle-power, 21; calorific value, 475 B. t. u.
Annual production, 72,000,000 c. f.
Max. day's send out, 300,000 c. f.
Total gas holder capacity, 800,000 c. f.
Holder pressure, 4.5 in.
Miles of mains, approx., 40.5.
Street main pressures, max., 4.5 in.; min., 11 in.

Annual sales, approx., \$4,713,000 c. f.
Gas unaccounted for, 10 p. c.
Pop. city, 20,310 (1910); dist. supplied, 32,000.
No. consumers, 2,113.
No. meters, reg. 1,000; prepays, 210.
Price gas: Sliding scale, \$1.00 to \$1.50; 1st \$1.00; next 15 \$1.10; next 25 \$1.20; next 15 \$1.30; next 25 \$1.40; next 25 \$1.50; all over 100 \$1.10. Disc., 10c. 10 days. Min. bill, 60c.
Ranges in use, 1,800; heaters, 600; water heaters, 500.
No. commercial gas are lamps, 400.
Supplies Columbia.

Florence Gas Co., Florence.
Mfrs.: A. C. T. & Co., H. A. H., Car. & W., B. H. & C. Co., City of Charleston, S. C., Co. 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100.

Capital stock, auth., \$100,000; issued, \$75,000.
President, J. L. Barringer, Jr.
Secy. and Treas., W. J. Brown.
Gen. mgr. and pur. agent, J. L. Barringer, Jr.
Engineer, John Richter, Jr.
Process manufacture, Lowe (Logan).
Price coke per ton, delivered, \$4.05.
Price oil per gallon, delivered, 4.25c.
Candle-power, 18.
Calorific value, 400 B. t. u.
Gas holder capacity, 50,000 c. f.
Max. day's send out, 50,000 c. f.
High-pressure mains, 18 miles; pressure, 7 lbs.
Annual sales, approx., 12,000,000 c. f.
Gas unaccounted for, 10 p. c.
Population of city supplied, 7,007.
No. consumers, 400.
No. meters, reg. 231; prepays, 150.
Price gas: Light, gross, \$2; net, \$1.50 for 1st 10,000 c. f.; next 10,000 c. f., \$1.30 net.
Gas appliances in use: Ranges, 400; heaters, 40; water heaters, 120.
No. commercial gas are lamps in use, 70.
Supplies Florence.

SOUTH CAROLINA.

Georgetown Gas and Electric Co., Georgetown.
(Company out of existence; franchise forfeited.)

Greenville Public Utilities Co., Greenville.
Mfrs.: Ches. & West., O. Gr. & Knox, J. B. P. & N. R. R., Ex.: So.

(Successor to Greenville Gas & Elec. Light & Power Co.)
(Controlled by Southern Power Co.)
For capitalization and bonds, see Appendix.
President, Z. V. Taylor.
Secretary and Treasurer, M. C. Marshall.
Branch mgr., Jas. McCabo.
Superintendent, W. H. Brown.
Gen. mgr., Mill Power Supply Co.
Process manufacture, Lowe.
Price oil per gal., delivered, 7.5c.
Candle-power, 22.
Max. day's send out, 100,000 c. f.
Gas holder capacity, 150,000 c. f.
Miles of mains, approximate, 42.
Street main pressures, max., 3.5 in.; min., 2.5 in.
Annual sales, approx., \$3,100,000 c. f.
Gas unaccounted for, 25 p. c.
Pop. city, 15,741 (1910); dist. supplied, 18,000.
No. meters, reg. 1,000; prepays, 100.
Price gas: Light and Fuel, gross \$1.25; net \$1.23.
No. ranges, 1,700; heaters, 125; water heaters, 200.
Supplies Greenville and vicinity.

ELECTRICAL DEPARTMENT.

System operated: Arc, 4 amp. mag.; power, 3 phase, 60 cycles.
Voltage: power, 220.
City lighting contracts: Hours lighted per year: Arc, 4,000.
No. public area, 202. Price per year, 400.
Commercial lighting: No. incand., 300.
Price current per kw. hr., gross 5c.
Power circuits: No. meters, 142.
Output of station, kw. for year, 1,000,000.
Generating power used: Water.
Power purchased from Southern Power Co.

Met. H. Gas Co., Rock Hill.

Mfrs.: So. Ex.: So.

General office, 1142 Real Estate Trust Bldg.
Capital stock, \$50,000.
Bonds, \$50,000; due 1913; interest, 5 p. c.
President, John D. Shallock.
Secy. and Treas., E. C. Worrell.
Gen. mgr., E. D. Wharton.
Superintendent, E. R. Guard.
New bus. mgr., E. R. Guard.
Process manufacture, Lowe.
Annual production, 1,700,000 c. f.
Gas holder capacity, 20,000 c. f.
Holder pressure, 3.4 in.
Max. day's send out, 25,000 c. f.
Miles of mains, approximate, 12.

Street main pressures, max., 3.4 in.; min., 1.0 in.

Annual sales, approx., 9,000,000 c. f.
Gas unaccounted for, 15 p. c.
Pop. of city, 7,319; of dist. supplied, 8,000.
No. consumers, 400.
No. meters, reg. 200; prepays, 250.
Price of gas: Light and Fuel, gross, net, \$1.50 to \$1.
No. ranges, 200; heaters, 160; water heaters, 50.
No. commercial gas are lamps, 100.
Supplies Rock Hill.

South Carolina Light, Power and Railway Co., Lancaster.
Mfrs.: Glenn Springs, Ches. & West., O. Gr. & Knox, J. B. P. & N. R. R., Ex.: So.

(For capitalization bonds, etc., see Appendix.)
President, P. O. Goseler.
Vice-pres., E. H. Knox.
Secretary and Treasurer, E. B. Lusher.
General mgr., E. H. Knox.
Supt. and new bus. mgr., Alex. Wyne.
Process manufacture, Opel.
Price coal per ton, delivered, \$4.55.
Candle-power, 17; calorific value, 925 B. t. u.
Annual production, 22,000,000 c. f.
Gas holder capacity, 60,000 c. f.
Holder pressure, max., 3.8 in.
Miles of mains, 14.
Street main pressures, max., 3.8 in.; min., 1.0 in.
Max. day's send out, 85,000 c. f.
Annual sales, approx., 30,000,000 c. f.
Gas unaccounted for, 10 p. c.
Pop. city, 17,517; dist. supplied, 5,500.
No. consumers, 625.
No. meters, reg. 410; prepays, 515.
Price gas: Light and Fuel, \$1.50. Disc., 5 to 20 p. c.
Ranges in use, 625; heaters, 275; water heaters, 425.
No. commercial gas are lamps, 225.
Supplies Spartanburg.

ELECTRICAL DEPARTMENT.

System operated: Arc, D. C., dist. series, cand., A. C. power, A. C., 8 phase, cycle.
Station generating capacity, 10,000 h. p.
Voltage: Arc, series; incand., 120; 110-220-2,200.
City lighting contracts: Hours lighted per year, 4,100.
No. public area, 320; 4 amp. mag. Price per year, 400.
No. public incand., 512; 75 watt. Price per year, 2c. kw.
Commercial lighting: Price per kw. hr., 12c.; Disc., 10 to 60 p. c. Domestic same.
Power circuits: No. meters, 160; price per hr., 1.5c. to 3.88c. Disc., 10 p. c.
Other uses: Automobile charging sets (100), 4c. per kw. hr.
Output of station, kw./hrs. for year, 23,124.
Generating power used, Water and H. raised 10,500 h. p.
Cost of station boiler coal per ton, \$2.05.

DISCRIMINATION

In prices charged utilities for oil coal, as well as discrimination in service and rates and the power of commissions to regulate and control discrimination, can best be studied in
OFFICIAL PUBLIC SERVICE REPORTS, 74 Broadway, New York



630 South Carolina

MANUFACTURED GAS, CITY PLANTS

RHODE ISLAND — continued

Blackstone Valley Gas and Electric Co.
Woonsocket Division, Woonsocket
— continued

Voltage, com. service: Incand., 110-220; power, 110-220-550.
Miles of overhead wires, 2,132; underground cables, 3.5 miles.
City lighting contract: Hours lighted per year, area and incand., 4,000.
No. public incand., 332-1,000 c. p., at \$81 per year; 333-600 c. p., at \$60; 207-400 c. p., at \$61; 2,027-100 c. p., at \$30.40; 10-260 c. p., at \$38. 230-80 u. p. at \$10.20; 8-10 watt and 32-26 watt.

Commercial lighting: No. area, 9; incand., 28,330.51 kw.
Price com. current, net 3 to 5c.
Price, domes., current per kw. hr., gross: Pawtucket and Woonsocket, 10c; discounts, 1/2c per kw. hr.

Power circuits: Motors, 44,338 kw.
Power current price per kw. hr., 11c to 2c; disc., 5%, 10 days. In addition, demand rate at Pawtucket, \$3 to 80c per kw. per mo., plus 2.4c to .80c per kw. hr., with discount, 5% on first \$100, and 1% on balance of bill; depends on size of load, and land factor. Woonsocket, same, except current charge is 2.5c to .30c per kw. hr.

Other uses: Supplies street railway in Woonsocket and Union I. & Power Co. and Pascoag Fire District.

Output of stations, kw. hrs. for year, 121,631,211 (generated and purchased).
Generating power used, Steam and Water, rated, 51,310 hp.

SOUTH CAROLINA

ANDERSON

Anderson Gas and Utilities Co., Anderson.

RRs.: Chas. & West. C.; Blue Ridge; So. and P. & N.

Capital stock, \$100,000.
Bonds, \$25,000; due, 1948; int., 6%.
Pres., B. R. Horton.
Sec'y, B. R. Horton, Jr.
Treas., B. R. Horton.
Gen. mgr. and engr., E. R. Horton, Jr.
Process manufacture, Lowe.
Price of coke per ton, delivered, \$8 to \$10.
Price of oil per gal., delivered, 7.3c.
Candle-power, 22.
Calorific value, 800 B. t. u.
Annual production, 25,470,000 cu. ft.
Gas holder capacity, 50,000 cu. ft., and 1 pressure tank, 20,000 cu. ft.
Holder pressure, max., 3.5 in.
Max. day's send-out, 100,000 cu. ft.
Miles of mains, 10, high pressure.
Pressure carried, max., 10 lbs.; min., 3 lbs., aver., 6 lbs.
Annual sales, approximate, 19,870,000 cu. ft.
(Gas unaccounted for, 22%.)
Pop. city, est., 18,000; pop. of dist. supplied, 9,000.
No. consumers, 780.
No. meters, reg., 660; prepay., 101.
Price gas: Light and fuel, gross, first 5,000 cu. ft., \$2.30; second 5,000 cu. ft., \$2.15; all over 10,000 cu. ft. \$1.90 per 1,000. Discount, 10% ten day.
No. ranges, 884; heaters, 160; water heaters, 126.
No. commercial gas arc lamps, 16.
Supplies Anderson and suburbs.

CHARLESTON

Charleston Consolidated Railway and Lighting Co., Charleston.

RRs.: A. C. L.; So. S. A. L.; Car. & W. B. B.; B. & C. Co.; Clyde SS.; Sen. I. Co.; C. SS. Co.; Phila. & So. Transf.; Am.-H.; Luckenbach; Grace; United Fruit Line.

(Leased from Charleston Consolidated Railway, Gas & Elec. Co. for 99 years from 1910.)

Controlled by United Gas Impt. Co., Philadelphia, Pa.
Capital stock, pref. auth., \$1,500,000; issued, \$500,000; com. auth., \$2,000,000; issued, \$1,500,000.

Pres., P. H. Oadeson, Phila., Pa.
Vice-pres., Stuart Cooper.
Sec'y, G. W. Curran, Phila., Pa.
Treas., L. W. Morris, Phila., Pa.
Gen. mgr., E. Cooper.
Comptrolr. agt., J. P. Connolly.
Engr. gas dept., F. C. Hill.
Engr. el. dept., B. L. Godehalk.
Pur. agt., J. A. Pearson, Phila., Pa.
Process of manufacture, Lowe (3-7 ft. 6 in.) carburettor gas set.)
(Gas oil used, 1,577,700 gals.)
Annual production, water gas, 384,762,000 cu. ft.
By-products made: Tar, 240,670 gals.
Price of fuel per ton, delivered, coke, \$11.08; coal, 6.35c; oil per gal., 1.82c.

Calorific value, stand., 540 B.t.u.; av. 513 B. t. u.
Gas holder capacity, 925,000 cu. ft.; holder pressure, max., 7 inches.
Power plant rated, 276 h. p.
Stross mains, 72.98 miles; pressure, max., 8 in.; min., 3 in.
Distrib. mains, 2.78 miles; pressure, up to 5 lbs.

No. of services in the ground, 0,267; av. diam., 1.26 in.
Max. day's send-out, 2,320,000 cu. ft.; proper, high pressure, 75%.
Annual sales, 31,562,550 cu. ft.
Sales divided: Dom., 75,087; street lighting, 1,042; indus., 22,082.
Gas unaccounted for, 12.04%.

By-products sold: Tar, 240,670 gals.
Pop. of city, 67,087; pop. of dist. supplied, 70,000.
No. consumers, 8,475; indus., 1,000.
No. meters, reg., 7,603; prepay., 552.
Price gas: Light and fuel, gross, not, \$15.5; min. bill, 50c per meter per month.

No. public Velsbach lamps, 380; price per lamp per year, \$14.25.
Price does not include repairs, care, lighting and extinguishing.
No. of hours each lamp is lighted per year, 4,000.
Av. consumption per lamp, 3-7 cu. ft.
Ranges in use, 8,980; heaters, 10,357; water heaters, miscel., 2,016; incinerators, 2.
No. commercial gas arc lamps in use, 276.
Supplies Charleston.

Electrical Department.

System operated: Incand., A. C., 60 cycle, single phase; power, single phase A. C. and 550 v. D. C.
Generating capacity: Total, 12,500 kva.
Voltage: Area, series, 6.5 amp. St. Light, incand., 110-220; power, 220-440-550-2200-3200-6500-12,200.
Miles of overhead wires, 268.83.
City lighting contract: Hours lighted per year are (all night), 4,000; incand., 1,563 hrs. (half night).
No. public series incand., 730-330 watt; price per year, \$64 (all night); \$20 (half night).
Commercial lighting: No. incand., 27.
Price current per kw. hr., net, city, 10c to 4c. Min. bill, 50c per mo. per meter.
Suburban rate, net, 12c to 6c. Min. bill, \$1 per meter per month.
Power: No. motors, 1,036; price per kw. hr.: Demand charge, \$2.00 for 25 kw.; \$1.50 all over. Plus charge, 3c to 15c.

Other uses: Railway.
Output of station, kw. hrs. for year, 23,083,344.
Generating power used, Steam; rated hp., 4,888.
Cost of station boiler coal per ton, \$5.10.

COLUMBIA

The Columbia Gas Light Co., Columbia.
RRs.: A. C. L.; Col. New. & Laurens; B. A. L.; So. B. B.; N. Y.; Col. & Geo. Co.

Controlled by Columbia Railway, Gas & Electric Co.
(For capitalization, bonds, etc., see Financial Report.)
Pres., W. B. Harlow.
Sec'y, C. N. Wilson.

Treas., J. P. Campbell.
Pur. agt., E. G. Nichols.
Sales mgr. and supt., H. O. Britt.
Process manufacture, Coal and Lowe.
Coal carbonized, 10,310 tons; gas oil used, 258,043 gals.
Annual production, coal gas, 120,484,000 cu. ft.; water gas, 84,119,000 cu. ft.
By-products made and sold: Coke, 7,115 tons; tar, 146,353 gals.
Calorific value, 860 B. t. u.
Price of coal per ton, delivered, \$5.60; oil per gal., 2.44c.
Total gas holder capacity, 860,000 cu. ft.
Holder pressure, 8 in.
Steam plant, rated, 237 hp.
Max. day's send-out, 913,000 cu. ft.
Miles of mains, approx., 60.
Street main pressure, max., 6 in.; min., 3 in.
High pressure mains, 3 miles; pressure, 7 lbs.
No. services, 4,033; av. diam., 1.26 in.
Annual sales, 18,161,500 cu. ft.
Sales divided: Dom., 85%; indus., 5%. (Gas unaccounted for, 0.17%.)
Pop. city, 37,524; pop. dist. supplied, the same.
No. consumers and meters, 4,172.
Price of gas: Sliding scale. First 10,000 cu. ft., not, \$1.50; next 20,000 not, \$1.45; over 30,000 cu. ft., not, \$1.40; min. bill, 90c net. Ten cents added after 10th of month.
Ranges in use, 3,600; heaters, 1,125; water heaters, 1,230.
No. commercial gas arc lamps, 260.
Supplies Columbia.

FLORENCE

Florence Gas and Fuel Co., Florence.
RRs.: A. C. L.

Capital stock, auth., \$72,000; issued, \$72,000.
Bonds, \$53,000; due, 1925; int., 6%.
Pres., M. D. Lucas.
Sec'y and treas., S. W. Brown.
Gen. mgr. and pur. agt., S. W. Brown.
Supt. and engr., S. W. Brown.
Sales mgr., S. W. Brown.
Process of manufacture, Carburetted Water Gas.
Annual production, 20,000,000 cu. ft.
Av. price per ton, deliv., coke, \$9; oil per gal., 75c.
By-products made: Tar, 9,000 gals.
Calorific value, standard, 540 B. t. u.
Gas holder capacity, 50,000 cu. ft.
Steam plant rated, 90 h. p.
High pressure mains, 21 miles; pressure, 8 lbs.
No. of services in the ground, 1,100; av. diam., 1/2 in.
Max. day's send-out, 100,000 cu. ft.
Annual sales, 25,000,000 cu. ft.
Gas unaccounted for, 15%.
By-products sold: Tar, 9,000 gals.
Pop. of city, 11,000; dist. supplied, 9,000.
No. consumers, dom., 881.
No. meters, dom., reg., 660; prepay., 221.
Price gas: Light and fuel, gross, \$2.15; net, \$2.05.
Ranges in use, 730; cookers and hot plates, 140; heaters, 550; water heaters, circ., 200; auto., 50.
Supplies Florence.

GREENVILLE

Southern Public Utilities Co., Greenville.
RRs.: Chas. & West.; C. Or. & Knox; So. F. & N. R. R.

General office, Charlotte, N. C.
For capitalization and bonds, see Financial Report.
Pres., B. C. Marshall.
Sec'y, W. C. Parker.
Treas., D. C. Calder.
Engr., S. L. Duckett.
Branch mgr., W. B. Ellis, Jr.
Supt., H. E. McDonald.
Pur. agt., Mill Power Supply Co.
Sales mgr., H. E. McDonald.
Process manufacture, Lowe.
Coal carbonized, 8,280 tons; gas oil used, 105,451 gals.
Annual prod., coal gas, 101,285,150 cu. ft.; water gas, 29,086,880 cu. ft.
By-products made: Coke, 5,400 tons; tar, 85,140 gals.
Price of coal per ton, del'd., \$5.85; coke, \$5.00; oil, per gal., 12c.

610 Rhode Island—South Carolina

RHODE ISLAND—continued[illegible]

WQON5001(HT,

Blackstone Valley Gas and Electric Co.,
Woonsocket Division, Woonsocket,
R.I. N. Y., N. H. & IL.

(For capitalization, see Company's report
in Holding section.)
Prest., David Daily Pawtucket, R. I.
Sect., William W. Crawford, Boston,
Mass.
Treas., Henry B. Sawyer, Boston,
Mass.
Exec. mgrs., Stone & Webster, Inc.,
Boston, Mass.
Local mgr., Pawtucket Div., R. C.
Brooks, Woonsocket Div., W. L.
Weston; S. J. Milliken, asst. mgr.
Woonsocket, Pawtucket Div.,
Chf. engr., W. I. Burdett.
Supt., C. L. O'Loughlin.
Sales, mgr., and service dir.,
John A. Gordon.
Pur. adm., C. B. Conkey.
Indus. assoc., John G. Kinnaman.
Gen. sales rep., under high pressure from
Pawtucket Co. Corp.
Gas purchased, 816,000 cu. ft.
Gas sold, 970,000 " "
Gaz holder capacity, 627,000 cu. ft.
Street incinerator, 60.65 million pressure;
operating at 15 lb.
High pressure mains, 2.2 miles; pres-
sure, 3.5 to 40 lbs.
No. services in the ground, 7,570 av.
feet.
Max. day's sent-out, 1,283,300 rfu. av.
Annual sales, approx., 310,918,890 cu. ft.
Sales divided, Dom., 93.5%; Indus.,
1.5%; other gas Co., .5%.
Gas unaccounted for, 0.8%.
Pop. of city, 19,481; pop. of dist. sup-
plying, 100,000.
Consumers dom., 10,316; Indus.,
81.
No. meters dom. and Indus., resk.,
10,641; praperty, 316.
Price of gas; Light and Fuel, gross,
Bost. \$4.96 per cu. ft. per month; \$1.30
per M.; next 10,000 cu. ft. per M.,
\$1.30; over 10,000 cu. ft. per M.,
\$1.01; next 100,000, \$1; next 650,-
000, \$0.96 all over 650,000, 0.90. Disc.,
10 cents per 1,000 cu. ft. If paid
within 10 days after meter bill.
Service charge, 60¢ per meter per
month.
Damages in loss, \$1,001 cookears and hot
water, 1,387 water heaters, 1,434.
No. house-heating installations: Hot
water, 15 steam, 641 hot air, 1.
No. commercial gas room lamps, 608.
Supplies, Woodbury, Union Village
and Watford.
Electrical department operated under
the name of Blinchetter Valley
Electricity Co., Pawtucket and
Woonsocket Division.

SOUTH CAROLINA

ANDHNOX

Audrey Cox and William Co. Audrey
Rt. 1, Chas. & West. C.; Blue Ridge

New York prices, 121 Greenwich St.
Capital stock, \$27,750.
Bonds, \$21,600. **Yates**; int., 6%.
Pres., J. Alfred Smith; Sec.,
Vice-pres., H. E. Eddy, Jr.
Mfg., J. L. Traylor.
Treas., J. L. Traylor.
Process manufacturers, **Lowe**.
Price of soda per ton, delivered, \$5 to
\$6.
Price of oil per gal. delivered, 1.24.
Camble, **pross**, 10.
Camble, **pross**, 10.
Annual production, 55,950,000 cu. ft.,
gas holder capacity, 65,000 cu. ft., and
pressure, 40 lb. per sq. in.
Max. day's wind-out, 100,000 cu. ft.
Miles of mains, 11 high pressure.
Miles of mains, 11 high pressure.
Annual sales, approximate, 20,400,000
gas unaccounted for, 70%.
Pop. city, est., 17,500; pop. of dist.,
100,000.
No. consumers, 789.
No. meters, reg., 600; private, 150.
Price of gas, 10 cu. ft., 10 cents.
First 5,000 cu. ft., \$3.50; second,
5,000 cu. ft., \$1.10; all over 10,000,
\$1.10.
First 1,000 cu. ft., 10 cents.
100 per 1,000 cu. ft.—10 days.
No. ranges, 1851; heaters, 1301 water
heaters.
Supplies Anderson and suburbs.

CHARLESTON

Charleston Consolidated Railway and
Lighting Co., Charleston.
R.R.s.: A. C. L.; So.; & A. L. Car. &
W. S. D. B. & C. Co.; Clyde
B.B.; Sea Isl. Co.; C. B. Co.; Phila-
& N. O. So. Transf. Am.-H.
Luckenbach; Grace; United Fruit
Line.

[illegible]

MANUFACTURED GAS, CITY PLANTS

No. public Wolsbach lamps, 241; price
per lamp per year, \$11.25.
Price includes transformer, wire, tubing
and extinguisher lamp in lighted box.
No. of lamps per year, 1,650. Av. consumption per
lamp, 4-8 cu. ft.
Ranges in use, 10,500; heaters, 10,600;
water heaters, 10,000; stoves, 10,000;
100 instant, 100 incinerators, 2.
No. commercial gas arc lamps in use,
250.
Supplier Charleston.
Company supplies territory with elec-
tricity.

COLUMBIA

Grand River Paper Co., Columbia.
(Successor to the Columbia Gas Light
Co.)

RRs: A. C. I.; Col. New, & Laurens
H. A. I.; So. S. Va.; N. Y.; Col. &
Dev. Co.

Controlled by General Ores & Electric Corporation.
 Treas., W. R. Hattaway.
 Gen. Mgr., J. W. Kryn. Wm. Buchsbaum and L. L. Koltman.
 Asst. Mgr., C. N. Wilson.
 Treas., J. J. Campbell.
 Supt., J. B. Woodring.
 Asst. Supt., E. O. Nicol.
 Sales mgr., max. suppl.
 Annual output, 1,000,000 cu. ft. of bit.
 Coal carbonized, 11,950 tons; wax oil used, 17,122 yds.
 Annual prod., 1,000,000 cu. ft. (13,222,800 cu. ft.); water max., 60,111,000 cu. ft.
 By-products made and sold: Coke, 7,712 tons; tar, 141,493 gal.
 Colorless fuel, 410 ft. cu.
 Total holder capacity, 880,000 cu. ft.
 Steam plant rated, 575 hp.
 Annual output, 17,122,800 cu. ft.
 Miles of mains, approx. 51.
 Street main pressure, max. 6 in.; min., 3 in.
 High pressure mains, 3 miles; pressure, 7 lbs.
 No. services, 2,191; no. diam., 1.75 in.
 Annual sales, 13,741,990 cu. ft.
 No. of customers, 924; supplied, 57%; the unaccounted for, 7.32%
 Pop. city, 73,821; pop. dist. supplied, the same.
 No. of customers and meters, 4,332.
 Price of gas: Sliding scale, \$1.04 to \$1.09 cu. ft. net, \$1.50; next 25,000 net, \$1.45; over 30,000 cu. ft. net, \$1.40; over 40,000 cu. ft. net, \$1.35; over 50,000 cu. ft. net, \$1.30; over 60,000 cu. ft. net, \$1.25; over 70,000 cu. ft. net, \$1.20; over 80,000 cu. ft. net, \$1.15; over 90,000 cu. ft. net, \$1.10; over 100,000 cu. ft. net, \$1.05.
 Cents added after 10th of month.
 Ranges in use, 4,090; heaters, 1,200; water-heaters, 1,400.
 No. commercial and auto lamps, 150.
 Supplies Columbia.

FLUORESCENCE

Florence Gas and Fuel Co., Florence.
- RR.: A. C. L.

Capital stock, auth., \$100,000; issued, \$12,000.
 Capital, \$23,000; due, 12½; int., 6%.
 Pres., S. D. Lucas.
 Secy. and treas., W. W. Brown.
 Gen. mgr. and pur. agt., S. W. Brown.
 Supt. and engr., S. W. Brown.
 Mgr. sales, J. I. Tongon.
 Products of natural gas. Carburized
 Water Gas.
 Gas oil used, 29,000 gallons.
 Gas sold, 1,000,000 cu. ft. at \$1.000 cu. ft.
 Av. price per ton, 10½¢; cons., 14.5%;
 coke, 14.12; oil per bar, 8.5¢.
 Total assets made, Treas., 3,000 gal.
 Colorful water used, 200 gal. U.S.
 Gas holder capacity, 65,000 cu. ft.
 Steam plant rated, 50 h. p.
 High pressure, 200 lbs. 21 miles; pres-
 sure, 6 lbs.
 No. of services in the ground, 1,160;
 av. diam., 7½ in.
 Max. day's output, 100,000 cu. ft.
 Annual sales, 279,000 cu. ft.
 Gas unrecovered for, 10%.
 Pop. of city, 8,000; dist. supplied,
 1,000.

MANUFACTURED GAS,

SOUTH CAROLINA—con

Florence Gas and Fuel Co. Vis
 continued
 No. consumers, dom. 919.
 Prices gas, light and fuel, gro
 nel, \$2.08.
 Tranges in use, 730; cookers
 plates, 140; heaters, 658
 heaters, circa, 260; auto, 8
 Supplies Florence.

GRANDVILLE

Newhaven Public Utilities Co.,
Rile, Chan. & West, O., Gr.,
So. P. & N. R. R.

[illegible]

ROCK HILL

Rock Hill Gas Co., Rock Hill
S.C.

[illegible]

304 SOUTH CAROLINA

MANUFACTURED GAS, CITY PLANTS

SOUTH CAROLINA—continued

[illegible]

CREATING A

South Carolina Public Service Co.
A Subsidiary of Northern Cities Public
Service Co., Managed by Central
Public Service Corp., 224 So. Michi-
gan Ave., Chicago, Ill.
Pres., A. J. Palmer, Chicago, Ill.
Vice-Pres., J. H. Morris, Wm. H.
Wilder, D. C. McClure, Chicago, Ill.
Secy., W. B. MacFarland, Chicago, Ill.
Treas., W. B. McCollough, Chicago, Ill.
Gen. Mgr., E. J. Mori, St. O. Warren,

BROWN'S DIRECTORY OF AMERICAN GAS COMPANIES

SOUTH CAROLINA—continued

[illegible]

REFERENCE

[illegible]

BROWN'S DIRECTORY OF AMERICAN GAS COMPANIES

MANUFACTURED GAS, CITY PLANTS

SOUTH CAROLINA 305

[illegible]

CRUISEPLANES.

Southern Public Utilities Co.

QUESTIONS

GREENWOOD.
Greenwood Gas & Fuel Co.
25 Marwell Ave.
Subsidiary of Western States Gas
Power Co. 21 West St., New York

BROWN'S DIRECTORY OF AMERICAN GAS COMPANIES

342 RHODE ISLAND-SOUTH CAROLINA

Local rep.: Warren and Bristol dist.: Lower
Gardner, 3rd, Weymouth
Calorific value: 1,064 B.t.u.
Average specific gravity: .61
Gas holder capacity: 125,000 cu. ft.
Street main high pressure: 16,320 miles, 20 in.
Street main low pressure: 57,225 miles, pressure av.
ft. 6 in. w.s.
Number of services: 4,093
Gas purchased: 293,114,000 cu. ft. from Algonquin
Gas Transmission Co.
Annual production, standby: 376,100 cu. ft. LP-
Gas
Annual sales: 160,772,100 cu. ft.
Sales divided: Res. 49%; house heating, 27%;
com. 11%; indus. 13%.
Number of consumers: Res. 6,256; other, 407.
Price of Gas: General rate \$1.100 cu. ft. ad-
ditional, 24¢ per C. Minimum monthly bill, \$6.00.
Effective, Bristol and Warren, September 17,
1953; Weymouth, November 12, 1953.
Residential heating and/or water heating, in-
cluding other uses, rate \$1.100 cu. ft. or
less per mo., \$1.00; next 1,400 cu. ft., 22¢ per C;
next 2,500 cu. ft., 16¢ per C; additional, 18¢
per C. Minimum monthly bill, \$1.00. Effective,
Bristol and Warren, September 17, 1953; Wey-
mouth, November 12, 1953.
Company operates retail stores in Warren and
Weymouth.
Communities supplied and number of active mo-
tors: Bristol, 2,791; Warren, 1,763; Weymouth,
2,819; total, 7,373.
Number of gas department employees: 38.
Population: District, 53,213.

PROVIDENCE

Providence Gas Company (Natural)
100 Weymouth St.; plant, Sassafras Point
Directors: DeForest W. Abel, Henry S. Claife, G.
Maurice Courton, R. Leslie Fletcher, A. Living-
ston Kelto, Edmund C. Mayo, T. Dawson Brown,
L. E. Knowlton, Harry B. Freeman, J. Harold
Williams, Ray B. Owen.
Pres.: R. Leslie Fletcher.
Exec. vice-pres. and gen. mgr.: L. E. Knowlton.
Treas. and sec.: Arthur E. Erickson.
Asst. treas. and asst. sec.: C. Harvey Faulkner.
Gen. supt.: Donald Whitcomb.
Asst. gen. supt.: Louis R. Hampton.
Supt. of mfg. and dist.: A. William Olcen.
Supt. of customer service: George V. Jusch.
Exec. asst.: Charles W. Provencio.
Planning comm.: Irving J. True.
Gen. sales mgr.: Everett A. Taylor.
Mgr. indus. and com. sales: E. Gilbert Silven.
Mgr. res. sales: Frank J. McLaughlin, Jr.
Pur. asst.: George F. Smith.
Home service dir.: Kathleen Atkinson.
Calorific value: 1,060 B.t.u.
Average specific gravity: .61
Standby production: Oil gas and propane gas.
Gas holder capacity: 125,000 cu. ft.
Propane storage: 150,000 gal.
Miles of main: High pressure, 238; booster, 6;
street, 691; pressure, 16 in. w.s.
Number of services: 7,551; alt., 1-475 in.
Gas purchased: 2,797,004,000 cu. ft. from Algon-
quin Gas Transmission Co.

SOUTH CAROLINA

GAS COMPANIES AND MAIN OFFICE
Greenville Commission of Public Works
Greenwood
Atlanta Gas Light Co. Atlanta, Ga.
Clinton-Newberry Natural Gas Authority Newberry

OPERATING GAS COMPANIES

Laurens Natural Gas System Laurens
Poplar Gas Co. Florence
Richland Natural Gas Co. Charleston, N.C.
Rock Hill Gas Co. Rock Hill

COMMUNITIES SERVED AND INDEX TO OPERATING DATA

Allen Florence
Anderson North Augusta
Charleston Columbia
Clemson Greenville
Clinton Greenville
Columbia Columbia
Darlington Darlington
Eau Claire Newberry

OPERATING DATA

Annual sales: 1,010,138,000 cu. ft.
Number of consumers: 1,815.
Price of Gas: See company's separate report.
Charlotte, N.C.
Company sells appliances.
Supplies: Anderson and North Anderson.
Population: 19,770.

ALLEN

Atlanta Gas Light Company (Natural)
1897 Richland Ave.
Advisory services furnished by Stone and Webster
Service Corp., 90 Broad St., New York 4, N.Y.
For officials see company's combined report, At-
lanta, Ga.
Local mgr.: E. W. Thompson.
Altitude: 600 ft.
Calorific value: 1,048 B.t.u.
Average specific gravity: .6.
Street mains: 35.06 miles; 8 in. equiv.
Number of services: 1,248.
Gas purchased: 26,273,000 cu. ft. from Southern
Natural Gas Co.
Annual production: Propane-air, standby, 5,894-
000 cu. ft.
Sales divided: Res. 77%; com., 23%.
Number of consumers: Res., 1,238; com., 105;
total, 1,401.
Number of meters: 1,369.
Price of Gas: Residential rate 9C-SN-21. First
2 therms or less per mo., \$1.50; next 18 therms,
21¢ gross, 21¢ net per th.; next 80 therms, 16¢
gross, 16¢ net per th.; additional, 9¢ gross, 9¢
net per th. Discount difference between gross and
net, 10 days. Minimum monthly bill, \$1.50.
Effective December 1, 1954.
General rate 9C-SN-22. First 2 therms or less
per mo., \$1.50; next 18 therms, 16¢ gross, 16¢
net per th.; next 180 therms, 16¢ gross, 16¢
net per th.; additional, 16¢ gross, 16¢ net per th.
Discount difference between gross and net, 10
days. Minimum monthly bill, \$1.50. Effective De-
cember 1, 1954.
Company operates one retail store.
Appliances sold, 1954: Ranges, 13; water heaters,
10.
Supplies: Allen and North Augusta.
Number of employees: 8.
Population: 20,080 (est.).

ANDERSON

Piedmont Natural Gas Co., Inc. (Natural)
105 N. Main St.; general office, Charlotte, N.C.
For officials see company's combined report, Char-
lotte, N.C.
Mgr.: J. L. C. Black.
Altitude: 723 ft.
Calorific value: 1,000 B.t.u.
Average specific gravity: .60.
Gas holder capacity: 83,000 cu. ft.
Miles of main: 40 miles 8 in. equiv. including
3.3 mi. 3 in. equiv. transmission main.
Gas purchased: 1,158,240,000 cu. ft. from Trans-
continental Gas Pipe Line Corp.
Annual production: Propane-air, standby, 208,008
cu. ft.

COLUMBIA

South Carolina Electric & Gas Co. (Natural)
South Carolina Electric & Gas Co., Columbia
South Carolina Natural Gas Co., Columbia
Sumter Gas and Power Co., Sumter
Spartanburg Spartanburg
Sunder Sunderland
Laurens Laurens
West Columbia Columbia
Newberry Newberry

COLUMBIA

Annual sales: 1,010,138,000 cu. ft.
Number of consumers: 1,815.
Price of Gas: See company's separate report.
Charlotte, N.C.
Company sells appliances.
Supplies: Anderson and North Anderson.
Population: 19,770.

COLUMBIA

South Carolina Electric & Gas Co. (Natural)
South Carolina Electric & Gas Co., Columbia
South Carolina Natural Gas Co., Columbia
Sumter Gas and Power Co., Sumter
Spartanburg Spartanburg
Sunder Sunderland
Laurens Laurens
West Columbia Columbia
Newberry Newberry

SOUTH CAROLINA 343

Laurens Laurens
Poplar Florence
Richland Charleston, N.C.
Rock Hill Rock Hill
Spartanburg Spartanburg
Sunder Sunderland
Laurens Laurens
West Columbia Columbia
Newberry Newberry

COLUMBIA

Annual sales: 1,010,138,000 cu. ft.
Number of consumers: 1,815.
Price of Gas: See company's separate report.
Charlotte, N.C.
Company sells appliances.
Supplies: Anderson and North Anderson.
Population: 19,770.

COLUMBIA

South Carolina Electric & Gas Co. (Natural)
141 Meeting St.; main office, 328 Main St., Columbia,
S.C.
For extensive personnel see company's report in Ed-
ing Section.
Supt. gas dept.: J. L. Hammond.
Pur. asst.: G. C. Meets, Columbia, S.C.
Home service dir.: Mary Frances Kates, Carroll
C. McDonald.
Calorific value: Average, 1,048 B.t.u.
Standby production: Water gas and LP-Gas.
Gas holder capacity: Water gas, 745,000 cu. ft.; ro-
tary, 50,000 cu. ft.
LP-Gas storage capacity: 4 tanks, 30,000 gal.
each.
Miles of main: High pressure, 11; low pressure,
98; total, 112.
Gas purchased: 605,581,000 cu. ft. from wholly
owned subsidiary South Carolina Natural Gas
Co.
Annual production: Water gas, 14,001,500 cu.
ft.; LP-Gas, 3,127,000 cu. ft.
Annual sales: 414,236,000 cu. ft.
Sales divided: Res. 80%; indus., 19%.
Maximum day's semi-hourly demand, 452,000 cu. ft.
Gas unaccounted for: 104,150,769 cu. ft.
Number of consumers: Res., 10,587; com., 1,594;
indus., 7; total, 12,188 active.
Number of services: 12,188.
Price of Gas: General service, First 200 cu. ft. or less
per mo., \$1.50; next 800 cu. ft., 81¢ per C;
or less per mo., \$1.50; next 800 cu. ft., 81¢ per C;
or next 4,000 cu. ft., 25¢ per C; additional, 11¢ per C.
Miles of main: 12.8¢ per C; additional, 11¢ per C.
Minimum monthly bill, \$1.10. Effective April 13,
1954.
Residential service, First 200 cu. ft. or less
per mo., \$1.50; next 800 cu. ft., 27¢ per C;
or less per mo., \$1.50; next 800 cu. ft., 27¢ per C;
or next 4,000 cu. ft., 25¢ per C; additional, 11¢ per C.
Minimum monthly bill, \$1.10. Effective April 13,
1954.
Commercial heading (Charleston only). First
200 cu. ft. or less per mo., \$1.25; next 800 cu. ft.
or less per mo., \$1.25; next 2,000 cu. ft., 25¢ per C;
additional, 15¢ per C. Minimum charge, \$1.25
per month, \$20.00 per heating season. Effective
April 13, 1954.
All rates are net and are subject to purchased
gas cost adjustment.

COLUMBIA

South Carolina Electric & Gas Co. (Natural)
141 Meeting St.; main office, 328 Main St., Columbia,
S.C.
For extensive personnel see company's report in Ed-
ing Section.
Supt. gas dept.: J. L. Hammond.
Pur. asst.: G. C. Meets, Columbia, S.C.
Home service dir.: Mary Frances Kates, Carroll
C. McDonald.
Calorific value: Average, 1,048 B.t.u.
Standby production: Water gas and LP-Gas.
Gas holder capacity: Water gas, 745,000 cu. ft.; ro-
tary, 50,000 cu. ft.
LP-Gas storage capacity: 4 tanks, 30,000 gal.
each.
Miles of main: High pressure, 11; low pressure,
98; total, 112.
Gas purchased: 605,581,000 cu. ft. from wholly
owned subsidiary South Carolina Natural Gas
Co.
Annual production: Water gas, 14,001,500 cu.
ft.; LP-Gas, 3,127,000 cu. ft.
Annual sales: 414,236,000 cu. ft.
Sales divided: Res. 80%; indus., 19%.
Maximum day's semi-hourly demand, 452,000 cu. ft.
Gas unaccounted for: 104,150,769 cu. ft.
Number of consumers: Res., 10,587; com., 1,594;
indus., 7; total, 12,188 active.
Number of services: 12,188.
Price of Gas: General service, First 200 cu. ft. or less
per mo., \$1.50; next 800 cu. ft., 81¢ per C;
or less per mo., \$1.50; next 800 cu. ft., 81¢ per C;
or next 4,000 cu. ft., 25¢ per C; additional, 11¢ per C.
Miles of main: 12.8¢ per C; additional, 11¢ per C.
Minimum monthly bill, \$1.10. Effective April 13,
1954.
Residential service, First 200 cu. ft. or less
per mo., \$1.50; next 800 cu. ft., 27¢ per C;
or less per mo., \$1.50; next 800 cu. ft., 27¢ per C;
or next 4,000 cu. ft., 25¢ per C; additional, 11¢ per C.
Minimum monthly bill, \$1.10. Effective April 13,
1954.
Commercial heading (Charleston only). First
200 cu. ft. or less per mo., \$1.25; next 800 cu. ft.
or less per mo., \$1.25; next 2,000 cu. ft., 25¢ per C;
additional, 15¢ per C. Minimum charge, \$1.25
per month, \$20.00 per heating season. Effective
April 13, 1954.
All rates are net and are subject to purchased
gas cost adjustment.

COLUMBIA

South Carolina Electric & Gas Co. (Natural)
141 Meeting St.; main office, 328 Main St., Columbia,
S.C.
For extensive personnel see company's report in Ed-
ing Section.
Supt. gas dept.: J. L. Hammond.
Pur. asst.: G. C. Meets, Columbia, S.C.
Home service dir.: Mary Frances Kates, Carroll
C. McDonald.
Calorific value: Average, 1,048 B.t.u.
Standby production: Water gas and LP-Gas.
Gas holder capacity: Water gas, 745,000 cu. ft.; ro-
tary, 50,000 cu. ft.
LP-Gas storage capacity: 4 tanks, 30,000 gal.
each.
Miles of main: High pressure, 11; low pressure,
98; total, 112.
Gas purchased: 605,581,000 cu. ft. from wholly
owned subsidiary South Carolina Natural Gas
Co.
Annual production: Water gas, 14,001,500 cu.
ft.; LP-Gas, 3,127,000 cu. ft.
Annual sales: 414,236,000 cu. ft.
Sales divided: Res. 80%; indus., 19%.
Maximum day's semi-hourly demand, 452,000 cu. ft.
Gas unaccounted for: 104,150,769 cu. ft.
Number of consumers: Res., 10,587; com., 1,594;
indus., 7; total, 12,188 active.
Number of services: 12,188.
Price of Gas: General service, First 200 cu. ft. or less
per mo., \$1.50; next 800 cu. ft., 81¢ per C;
or less per mo., \$1.50; next 800 cu. ft., 81¢ per C;
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141 Meeting St.; main office, 328 Main St., Columbia,
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For extensive personnel see company's report in Ed-
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Pur. asst.: G. C. Meets, Columbia, S.C.
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April 13, 1954.
All rates are net and are subject to purchased
gas cost adjustment.

1968 PELOE ISLAND

[illegible]

PROVENANCE

[illegible]

SOLUBLE

[illegible]

OPERATING GAS COMPANIES

Company operates one retail store
Appliances sold: 1965: Conversion
rators, 28; space heaters, 20; water heaters, 14.
models; Little Compton, North Tiverton, Port-
mouth, Tiverton; also serves Lipo-Osa beyond
males, 725 customers.
Number of gas department employees: 4.
Population: 2,000.

SOUTH CAROLINA

CAS COMPANIES AND MAIN OFFICE

[illegible]

COMMUNITIES SERVED AND INDEX TO OPERATING DATA

[illegible]

OPERATING DATA

W

Atlanta Gas Light Company (Natural)
31 Park Ave.
Federal Reserve Service furnished by Stone and Webster
Service Corp., 30 Broad St., New York 4, N.Y.
For details see company's combined report, At-
lanta, J. L. C. Black

[illegible]

Major customers: 1,800.
Price of Gas: See company's separate report.
Natural Gas Co.
Operating in: 10.
Employees: 1,300.
Sales: 1,300.
Assets: 1,300.
Liabilities: 1,300.
Equity: 1,300.
Debt: 1,300.
Dividends: 1,300.
Interest: 1,300.
Taxes: 1,300.
Other: 1,300.

CHARLESTON

South Carolina Electric & Gas Co. (Nasdaq)
140 Meeting St., main office, 128 Main St., Columbia,
S.C.
For complete prospectus see company's combined
report, Columbia
Visitors: 400, and sales range: \$5.1 billion

[illegible]

number of this department employees: 30,
supplies; Allen and North Australia,
population: 21,000 people.

OPERATING GAS COMPANIES

[illegible]

Effective August 9, 2014.

Company operates one retail store.
Appliances sold: 1985: Central
vacuum cleaners, 1,000; vacuum
furmaces, 8; incinerators, 1; water
frigerators, 1; space heaters, 1,440; water
heaters, 362. Appliances retail, conventional
burners, 20; water heaters, 62.
Total sales, \$1,000,000. Company
operates 100% of selling area.
Employees: 1,730. Greenwald, 12,674; East
Ipswich, 1,000; North Kingsboro, 1,000;
Greenfield, 766; East Providence, 12,674; John-
ston, 2,100; North Kingsboro, 60; North Port-
land, 2,300; Pawtucket, 60; Providence, 6,531;
Providence, 60; Wrentham, 6,531; total, 101,000.
Population: City, 248,774; district, 420,144.

SOLUBLE

Tiverton Co. Co. (Hawtorn)
Main Road.
Fees and Treas.: Merritt Hawkins.
Secr.: Norman Smith.
Mar.: John Bonanza.
Auditor: John Bonanza.
Admission: Adults 1.00 to 1.25, 2.00 to 2.50.
Children 50¢.
Miles of main: Distribution, 5; pressure 4 in.
w.c.
Number of services: 324.
Total purchased: 12,700 cu. ft. from Algonquin
Co. 100,000 cu. ft. from Algonquin
Co. 100,000 cu. ft.
Annual sales: 10,500-14,000 cu. ft.
Gas unaccounted for: 5-7%.
Number of meters: 578.
Total of gas: 200 cu. ft. per day.
Prices of gas: 200 cu. ft. per day, \$1.25
14¢ per cu. ft., 18¢ per cu. ft. next 8,000 cu. ft.,
14¢ per cu. ft. additional, 18¢ per cu. ft. based
on 823 cu. ft. and a multiplying factor of 2 used
for the balance of the year. Minimum monthly bill,
75¢. Effective November 1, 1934.

